

Luminaire

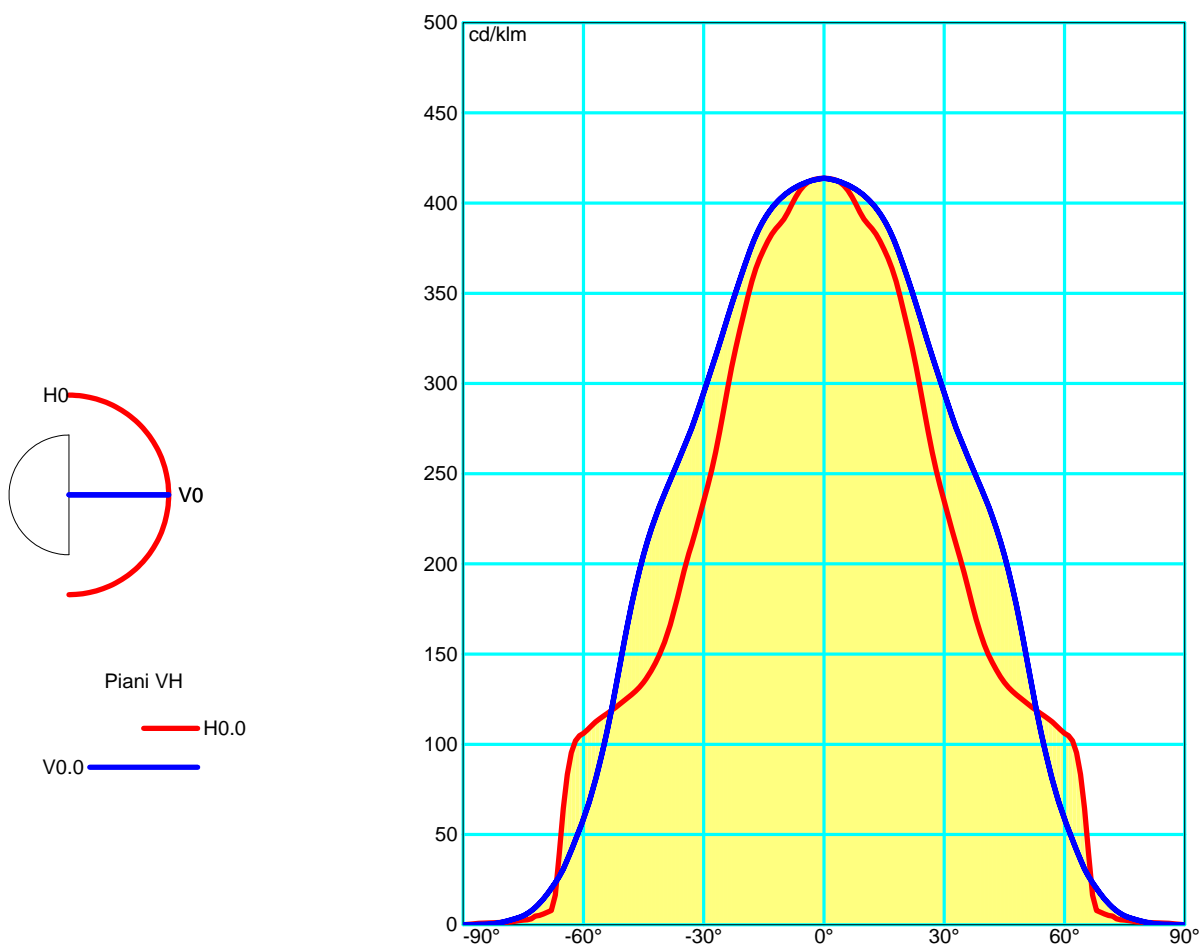
Code 216131.115
Name START SM HPS-T 150W

Measur.

Code CL2303/11-01A
Name START SM ST 150W

Luminaire Flux	12309.27 lm	Luminaire Power	150.00 W	Efficacy	82.06 lm/W	Efficiency	70.34%
Lamps Flux	17500.00 lm	Maximum value	413.78 cd/klm	Position	H=0.00 V=0.00	VH	VH symm in H0
Rectangular Luminaire		Length	569 mm	Width	330 mm	Height	178 mm
Rectangular Luminous Area		Length	569 mm	Width	330 mm	Height	178 mm
Horizontal Luminous Area		0.187770 m2		Emitting area on Plane 180°		0.101282 m2	
Emitting area on Plane 0°		0.101282 m2		Emitting area on Plane 270°		0.058740 m2	
Emitting area on Plane 90°		0.058740 m2		Glare area at 76°		0.143699 m2	
Coordinate system		VH		Symmetry Type		VH symm in H0	
Date		01-01-1998		Beam Type		Diffuse	
Measurement Distance		0.00		Measurement Flux		10450.00 lm	
Operator				Source Voltage [V]			
Temperature				Source current [A]			
Humidity				Photocell			
Notes		1 * NAVT150 = 10450.00 lm					

Line	Code	Luminaire Lamps		Flux [lm]	Pow. [W]	Q.ty
OSRAM ILCOS STH,SD,ST,SE,LS	NAV-T 150 SUPER 4Y	Name	VIALOX® NAV-T 150 SUPER 4Y E40	17500.00	150.00	1



Luminaire

Code 216131.115
Name START SM HPS-T 150W

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Code CL2303/11-01A
Name START SM ST 150W

Luminaire Flux	12309.27 lm		Luminaire Power		150.00 W		Efficacy		82.06 lm/W		Efficiency		70.34%	
Lamps Flux	17500.00 lm		Maximum value		413.78 cd/klm		Position		H=0.00 V=0.00		VH		VH symm in H0	
Luminous Intensity Table cd/klm														
Table 1/9														
	H 0.00	H 2.50	H 5.00	H 7.50	H 10.00	H 12.50	H 15.00	H 17.50	H 20.00	H 22.50	H 25.00	H 27.50	H 30.00	
V-90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
V-89.0	0.19	0.19	0.19	0.19	0.19	0.18	0.18	0.18	0.17	0.16	0.15	0.14	0.12	
V-88.0	0.38	0.38	0.38	0.38	0.38	0.37	0.37	0.36	0.35	0.34	0.32	0.30	0.27	
V-87.0	0.58	0.58	0.58	0.58	0.57	0.57	0.56	0.55	0.54	0.53	0.50	0.48	0.45	
V-86.0	0.76	0.76	0.76	0.76	0.76	0.75	0.74	0.74	0.72	0.71	0.69	0.67	0.64	
V-85.0	0.91	0.90	0.90	0.90	0.90	0.90	0.89	0.88	0.87	0.86	0.84	0.82	0.80	
V-84.0	0.99	0.98	0.98	0.98	0.98	0.98	0.98	0.97	0.96	0.95	0.94	0.92	0.91	
V-83.0	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.03	1.03	1.02	1.01	0.99	0.97	
V-82.0	1.10	1.11	1.10	1.11	1.11	1.12	1.11	1.11	1.10	1.10	1.09	1.07	1.05	
V-81.0	1.20	1.20	1.20	1.21	1.21	1.22	1.21	1.21	1.21	1.20	1.19	1.18	1.16	
V-80.0	1.31	1.32	1.31	1.32	1.33	1.33	1.33	1.33	1.33	1.32	1.32	1.31	1.29	
V-79.0	1.44	1.44	1.44	1.45	1.45	1.46	1.46	1.46	1.46	1.45	1.45	1.44	1.43	
V-78.0	1.62	1.62	1.62	1.63	1.64	1.64	1.64	1.64	1.64	1.63	1.62	1.62	1.60	
V-77.0	1.92	1.93	1.93	1.93	1.93	1.92	1.92	1.91	1.89	1.88	1.88	1.86	1.83	
V-76.0	2.29	2.30	2.29	2.28	2.27	2.25	2.23	2.21	2.19	2.19	2.16	2.13	2.09	
V-75.0	2.57	2.58	2.57	2.55	2.52	2.49	2.46	2.44	2.42	2.39	2.35	2.33	2.29	
V-74.0	2.74	2.74	2.74	2.73	2.71	2.69	2.66	2.62	2.54	2.53	2.52	2.47	2.41	
V-73.0	3.28	3.28	3.29	3.30	3.28	3.25	3.23	3.15	2.99	3.00	3.00	2.80	2.86	
V-72.0	4.74	4.72	4.74	4.77	4.64	4.34	4.17	4.27	4.17	3.75	3.75	4.02	3.65	
V-71.0	5.10	5.10	5.10	5.14	5.16	5.07	4.87	4.62	4.49	4.34	4.10	4.10	4.20	
V-70.0	5.91	5.91	5.89	5.84	5.76	5.63	5.45	5.24	5.07	4.91	4.75	4.60	4.48	
V-69.0	6.90	6.90	6.85	6.77	6.67	6.50	6.30	6.08	5.88	5.67	5.52	5.34	5.10	
V-68.0	7.89	8.22	7.70	6.51	6.48	7.63	8.11	6.95	7.21	7.56	6.39	6.99	5.98	
V-67.0	16.41	16.77	17.21	17.55	17.42	17.07	16.29	16.42	17.15	15.28	15.72	14.38	13.78	
V-66.0	39.63	39.85	39.72	39.67	39.47	38.96	38.32	38.09	37.31	36.01	34.64	32.15	29.73	
V-65.0	64.49	64.55	64.05	63.51	62.88	62.29	62.07	60.90	59.50	58.61	54.56	51.65	46.04	
V-64.0	83.28	83.18	82.56	81.84	81.05	80.29	79.73	77.80	76.41	74.27	69.37	64.35	57.97	
V-63.0	95.36	95.15	94.50	93.64	92.64	91.61	90.63	88.35	86.73	83.82	78.45	71.88	65.08	
V-62.0	101.92	101.66	101.04	100.14	99.05	97.85	96.44	94.20	92.30	89.11	83.84	76.73	69.51	
V-61.0	104.72	104.49	103.97	103.15	102.10	100.83	99.20	97.17	95.03	91.96	87.19	80.32	72.91	
V-60.0	106.12	105.95	105.55	104.84	103.86	102.54	100.89	99.01	96.70	93.93	89.71	83.45	76.10	
V-59.0	108.01	107.85	107.46	106.77	105.80	104.50	102.89	100.95	98.65	95.99	92.27	86.49	79.26	
V-58.0	110.30	110.12	109.71	109.01	108.07	106.83	105.19	103.20	100.95	98.32	94.90	89.57	82.43	
V-57.0	112.39	112.22	111.81	111.13	110.23	109.06	107.43	105.47	103.23	100.66	97.40	92.48	85.60	
V-56.0	114.11	113.98	113.60	112.95	112.09	110.99	109.47	107.60	105.41	102.87	99.73	95.20	88.74	
V-55.0	115.64	115.54	115.22	114.61	113.79	112.74	111.38	109.66	107.53	105.00	101.96	97.82	91.81	
V-54.0	117.16	117.07	116.80	116.27	115.49	114.48	113.23	111.67	109.64	107.08	104.14	100.35	94.78	
V-53.0	118.74	118.65	118.42	117.97	117.24	116.25	115.05	113.60	111.67	109.14	106.25	102.79	97.65	
V-52.0	120.40	120.32	120.10	119.71	119.04	118.07	116.86	115.39	113.58	111.14	108.31	105.10	100.41	
V-51.0	122.13	122.06	121.84	121.45	120.83	119.91	118.66	117.08	115.31	113.07	110.35	107.30	103.06	
V-50.0	123.90	123.82	123.57	123.17	122.58	121.70	120.44	118.78	116.97	114.95	112.39	109.41	105.46	
V-49.0	125.66	125.56	125.28	124.85	124.28	123.44	122.21	120.54	118.68	116.79	114.39	111.49	107.73	
V-48.0	127.48	127.36	127.06	126.61	126.02	125.19	124.00	122.37	120.51	118.62	116.33	113.53	109.94	
V-47.0	129.43	129.33	129.03	128.56	127.93	127.04	125.85	124.28	122.45	120.47	118.21	115.53	112.12	
V-46.0	131.64	131.56	131.31	130.83	130.10	129.14	127.88	126.34	124.51	122.48	120.10	117.47	114.28	
V-45.0	134.30	134.23	134.00	133.51	132.66	131.60	130.23	128.65	126.77	124.64	122.14	119.41	116.34	
V-44.0	137.53	137.44	137.16	136.62	135.65	134.48	133.01	131.31	129.29	127.01	124.39	121.46	118.42	
V-43.0	141.23	141.09	140.75	140.15	139.06	137.74	136.20	134.34	132.09	129.61	126.86	123.74	120.63	
V-42.0	145.27	145.10	144.72	144.08	142.87	141.37	139.70	137.72	135.20	132.47	129.56	126.32	123.07	
V-41.0	149.77	149.61	149.25	148.57	147.23	145.59	143.73	141.54	138.78	135.78	132.58	129.22	125.94	
V-40.0	155.12	154.99	154.70	153.98	152.54	150.82	148.73	146.23	143.13	139.79	136.14	132.62	129.18	
V-39.0	161.60	161.53	161.31	160.55	159.13	157.32	154.91	152.04	148.55	144.78	140.68	136.59	132.80	
V-38.0	169.14	169.14	168.91	168.09	166.67	164.81	162.02	158.70	154.73	150.49	145.85	141.12	136.81	
V-37.0	177.53	177.61	177.19	176.20	174.69	172.73	169.60	165.84	161.33	156.47	151.33	146.02	141.20	
V-36.0	186.35	186.49	185.75	184.51	182.87	180.65	177.31	173.17	168.04	162.47	156.81	150.98	145.63	
V-35.0	194.98	195.10	194.13	192.73	191.00	188.52	184.93	180.40	174.64	168.32	162.05	155.68	149.91	
V-34.0	202.98	202.99	202.05	200.71	198.93	196.25	192.33	187.36	180.97	173.94	167.00	160.09	153.95	
V-33.0	210.64	210.49	209.65	208.48	206.66	203.75	199.49	194.04	187.01	179.39	171.88	164.35	157.90	
V-32.0	218.44	218.15	217.25	216.19	214.23	211.03	206.50	200.48	192.97	184.88	176.85	168.86	161.95	
V-31.0	226.55	226.19	225.08	224.01	221.84	218.28	213.50	207.11	199.16	190.62	182.09	173.78	166.25	
V-30.0	234.78	234.49	233.29	232.13	229.73	225.84	220.81	214.16	205.87	196.82	187.87	179.08	171.00	
V-29.0	243.07	242.99	241.99	240.69	238.06	233.96	228.66	221.74	213.15	203.65	194.10	184.73	176.03	
V-28.0	251.93	252.03	251.25	249.71	246.86	242.54	236.96	229.73	220.82	210.85	200.66	190.68	181.39	
V-27.0	261.97	262.00	261.16	259.29	256.16	251.51	245.50	237.93	228.66	218.19	207.44	196.79	187.00	
V-26.0	273.22	272.97	271.78	269.52	266.08	261.02	254.44	246.37	236.91	225.87	214.57	203.13	192.78	
V-25.0	285.20	284.73	283.16	280.61	276.85	271.41	264.37	255.92	245.96	234.44	222.27	210.05	198.91	
V-24.0	297.36	296.90	295.06	292.48	288.49	282.77	275.57	266.62	255.94	243.90	230.73	217.42	205.46	
V-23.0	309.10	308.75	306.80	304.27	300.35	294.52	287.23	277.71	266.45	253.58	239.60	225.20	212.41	
V-22.0	319.83	319.50	317.60	315.02	311.24	305.29	297.82	288.21	276.47	262.86	248.16	232.84	219.52	
V-21.0	329.53	329.12	327.34	324.61	320.74	314.90	307.24	297.32	285.48	271.32	256.07	240.02	226.27	
V-20.0	338.80	338.27	336.58	333.65	329.56	323.81	315.99	305.86	293.63	279.12	263.28	246.68	232.36	
V-19.0	347.99	347.35	345.61	342.57	338.06	332.23	324.47	314.12	301.36	286.29	269.82	252.58	237.80	
V-18.0	356.55	355.82	353.96	350.99	345.97	339.94	331.95	321.67	308.35					

Luminaire

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Name START SM HPS-T 150W

Measurerm.

Code CL2303/11-01A
Name START SM ST 150W

Luminaire Flux	12309.27 lm		Luminaire Power		150.00 W		Efficacy		82.06 lm/W		Efficiency		70.34%	
Lamps Flux	17500.00 lm		Maximum value		413.78 cd/klm		Position		H=0.00 V=0.00		VH		VH symm in H0	
Luminous Intensity Table cd/klm Table 2/9														
	H 32.50	H 35.00	H 37.50	H 40.00	H 42.50	H 45.00	H 47.50	H 50.00	H 52.50	H 55.00	H 57.50	H 60.00	H 62.50	
V-90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
V-89.0	0.11	0.09	0.08	0.07	0.06	0.05	0.04	0.04	0.03	0.03	0.03	0.03	0.03	
V-88.0	0.24	0.22	0.20	0.18	0.15	0.14	0.12	0.10	0.09	0.08	0.07	0.06	0.06	
V-87.0	0.42	0.39	0.35	0.32	0.29	0.26	0.22	0.20	0.18	0.17	0.15	0.13	0.12	
V-86.0	0.61	0.58	0.54	0.51	0.47	0.43	0.39	0.35	0.31	0.27	0.24	0.21	0.18	
V-85.0	0.78	0.75	0.72	0.68	0.63	0.58	0.53	0.48	0.44	0.38	0.33	0.29	0.25	
V-84.0	0.89	0.86	0.83	0.79	0.75	0.70	0.66	0.59	0.53	0.47	0.42	0.37	0.32	
V-83.0	0.95	0.93	0.90	0.87	0.84	0.79	0.74	0.68	0.62	0.55	0.49	0.43	0.38	
V-82.0	1.03	1.01	0.98	0.95	0.92	0.87	0.82	0.76	0.69	0.62	0.56	0.49	0.44	
V-81.0	1.14	1.12	1.08	1.05	1.01	0.96	0.90	0.84	0.77	0.69	0.62	0.55	0.50	
V-80.0	1.27	1.24	1.20	1.16	1.11	1.06	0.99	0.92	0.84	0.77	0.69	0.62	0.55	
V-79.0	1.40	1.37	1.33	1.28	1.23	1.16	1.09	1.01	0.93	0.85	0.76	0.69	0.61	
V-78.0	1.57	1.53	1.48	1.42	1.36	1.29	1.20	1.12	1.02	0.93	0.85	0.76	0.68	
V-77.0	1.79	1.74	1.67	1.60	1.52	1.44	1.35	1.24	1.14	1.04	0.93	0.84	0.75	
V-76.0	2.03	1.96	1.89	1.80	1.70	1.61	1.50	1.38	1.27	1.15	1.04	0.93	0.83	
V-75.0	2.21	2.15	2.07	1.98	1.89	1.78	1.66	1.54	1.40	1.28	1.15	1.03	0.91	
V-74.0	2.38	2.29	2.23	2.17	2.06	1.96	1.84	1.71	1.56	1.41	1.28	1.14	1.01	
V-73.0	2.77	2.62	2.56	2.43	2.35	2.19	2.07	1.91	1.75	1.57	1.41	1.26	1.11	
V-72.0	3.51	3.26	3.03	2.88	2.72	2.54	2.35	2.15	1.98	1.75	1.56	1.39	1.22	
V-71.0	3.77	3.73	3.38	3.27	3.04	2.86	2.63	2.39	2.17	1.96	1.72	1.53	1.34	
V-70.0	4.27	4.16	4.04	3.69	3.62	3.14	2.91	2.70	2.35	2.16	1.90	1.69	1.47	
V-69.0	4.94	4.76	4.51	4.21	4.11	3.99	3.22	3.46	2.77	2.35	2.08	1.84	1.61	
V-68.0	6.50	5.92	5.97	5.98	4.57	5.78	5.10	4.81	3.81	2.81	2.33	2.00	1.76	
V-67.0	12.40	11.82	9.89	10.43	9.41	8.93	8.73	7.99	6.20	3.36	2.65	2.20	1.92	
V-66.0	26.59	22.99	20.26	17.55	16.34	15.16	14.22	11.89	9.50	5.36	3.21	2.44	2.09	
V-65.0	41.71	35.68	30.41	26.43	23.62	21.06	19.48	16.63	13.42	7.47	3.97	2.77	2.28	
V-64.0	51.61	45.44	38.41	32.70	28.86	26.11	23.66	20.36	16.56	10.55	5.30	3.23	2.48	
V-63.0	57.85	50.94	43.91	37.32	32.25	28.82	26.07	23.30	19.33	13.40	6.76	3.80	2.71	
V-62.0	62.03	54.84	47.64	40.81	34.93	30.87	27.69	24.71	20.94	15.82	8.82	4.73	3.07	
V-61.0	65.42	58.09	50.80	43.74	37.36	32.55	29.04	25.93	22.35	17.96	10.86	5.66	3.43	
V-60.0	68.59	61.13	53.74	46.52	39.85	34.34	30.37	26.97	23.47	19.35	13.24	7.17	4.08	
V-59.0	71.73	64.18	56.60	49.25	42.36	36.29	31.79	28.10	24.54	20.64	15.48	8.61	4.76	
V-58.0	74.91	67.30	59.57	52.00	44.94	38.38	33.25	29.29	25.60	21.65	17.06	10.52	5.58	
V-57.0	78.09	70.46	62.64	54.89	47.63	40.81	35.04	30.64	26.69	22.69	18.64	12.47	6.63	
V-56.0	81.26	73.64	65.78	57.87	50.38	43.27	36.90	32.02	27.78	23.80	19.56	14.19	7.61	
V-55.0	84.45	76.82	68.96	60.92	53.15	45.80	38.94	33.56	28.99	24.88	20.47	15.73	9.17	
V-54.0	87.60	79.98	72.15	64.02	56.02	48.37	41.12	35.16	30.19	25.90	21.54	17.11	10.75	
V-53.0	90.69	83.10	75.31	67.11	58.88	50.93	43.34	36.85	31.62	26.91	22.62	17.99	12.20	
V-52.0	93.73	86.19	78.42	70.16	61.73	53.48	45.67	38.64	33.07	27.89	23.61	18.89	13.44	
V-51.0	96.73	89.24	81.48	73.16	64.56	56.04	47.97	40.48	34.55	28.96	24.57	19.88	14.63	
V-50.0	99.67	92.24	84.43	76.09	67.36	58.58	50.25	42.47	36.01	30.28	25.44	20.89	15.63	
V-49.0	102.38	95.20	87.34	78.98	70.16	61.18	52.54	44.46	37.50	31.60	26.20	21.83	16.59	
V-48.0	104.94	98.08	90.19	81.83	72.91	63.77	54.83	46.55	38.94	32.95	27.01	22.63	17.55	
V-47.0	107.38	100.85	92.96	84.60	75.59	66.39	57.12	48.64	40.61	34.29	28.17	23.41	18.44	
V-46.0	109.72	103.48	95.62	87.31	78.15	68.91	59.34	50.70	42.22	35.47	29.29	24.14	19.29	
V-45.0	111.94	106.03	98.20	89.93	80.67	71.36	61.64	52.71	44.09	36.61	30.44	24.88	20.09	
V-44.0	114.18	108.56	100.83	92.49	83.15	73.58	63.86	54.56	45.90	37.90	31.54	25.68	20.67	
V-43.0	116.57	111.07	103.63	95.10	85.82	75.80	66.09	56.36	47.68	39.19	32.54	26.63	21.25	
V-42.0	119.27	113.87	106.64	97.93	88.57	78.05	68.25	58.24	49.42	40.63	33.45	27.55	21.83	
V-41.0	122.25	116.91	109.90	100.94	91.48	80.44	70.34	60.06	51.03	42.19	34.33	28.37	22.50	
V-40.0	125.47	120.14	113.22	104.06	94.42	82.97	72.41	62.03	52.58	43.72	35.44	29.10	23.14	
V-39.0	128.90	123.54	116.60	107.34	97.38	85.64	74.42	63.94	54.13	45.21	36.62	29.79	23.76	
V-38.0	132.54	127.07	119.90	110.62	100.24	88.40	76.47	65.88	55.67	46.64	37.83	30.56	24.42	
V-37.0	136.33	130.72	123.26	114.01	103.12	91.20	78.64	67.80	57.22	47.98	39.18	31.39	25.04	
V-36.0	140.15	134.33	126.64	117.39	106.08	94.06	80.87	69.64	58.92	49.27	40.48	32.24	25.63	
V-35.0	143.94	137.87	130.02	120.79	109.14	96.89	83.37	71.44	60.61	50.53	41.72	33.22	26.26	
V-34.0	147.66	141.27	133.39	124.08	112.42	99.79	85.90	73.33	62.37	51.94	42.89	34.26	26.93	
V-33.0	151.39	144.74	136.88	127.39	115.75	102.73	88.69	75.33	64.13	53.35	44.04	35.24	27.61	
V-32.0	155.28	148.37	140.44	130.80	119.21	105.74	91.50	77.37	65.87	54.82	45.20	36.20	28.31	
V-31.0	159.33	152.24	144.10	134.41	122.69	108.90	94.40	79.76	67.58	56.42	46.41	37.14	29.08	
V-30.0	163.59	156.28	148.01	138.31	126.22	112.15	97.34	82.16	69.28	58.00	47.64	38.03	29.84	
V-29.0	168.17	160.45	152.10	142.36	129.95	115.53	100.31	84.71	71.08	59.55	48.90	38.87	30.58	
V-28.0	172.94	164.86	156.35	146.38	133.90	119.05	103.35	87.38	73.02	61.10	50.18	39.82	31.29	
V-27.0	177.93	169.49	160.81	150.56	138.03	122.65	106.44	90.05	74.98	62.62	51.42	40.81	31.93	
V-26.0	183.19	174.36	165.45	154.93	142.34	126.43	109.63	92.93	77.14	64.10	52.62	41.79	32.57	
V-25.0	188.78	179.43	170.29	159.51	146.82	130.35	112.89	95.91	79.47	65.59	53.82	42.74	33.20	
V-24.0	194.80	184.84	175.36	164.40	151.28	134.50	116.26	98.95	81.83	67.10	55.02	43.71	33.84	
V-23.0	201.06	190.49	180.62	169.42	155.89	138.87	119.81	102.04	84.25	68.64	56.19	44.65	34.49	
V-22.0	207.40	196.36	186.10	174.31	160.66	143.34	123.41	105.14	86.79	70.39	57.33	45.53	35.16	
V-21.0	213.42	202.06	191.58	179.14	165.50	147.67	127.13	108.20	89.32	72.31	58.49	46.37	35.84	
V-20.0	218.89	207.42	196.74	183.97	170.34	151.97	131.05	111.27	91.80	74.22	59.67	47.18	36.53	
V-19.0	223.77	212.33	201.49	188.82	174.78	156.21	134.97	114.34	94.26	76.10	60.82	48.04	37.23	
V-18.0	228.30	216.94	205.96	193.45	178.93	160.33	138.86	117.38	96.64	77.94	61.95	48.91	37.93	

Luminaire

Code 216131.115
Name START SM HPS-T 150W

Measur.

Code CL2303/11-01A
Name START SM ST 150W

Luminaire Flux	12309.27 lm	Luminaire Power		150.00 W		Efficacy		82.06 lm/W		Efficiency		70.34%
Lamps Flux	17500.00 lm	Maximum value		413.78 cd/klm		Position		H=0.00 V=0.00		VH VH symm in H0		
Luminous Intensity Table cd/klm Table 3/9												
	H 65.00	H 67.50	H 70.00	H 72.50	H 75.00	H 77.50	H 80.00	H 82.50	H 85.00	H 87.50	H 90.00	
V-90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
V-89.0	0.03	0.03	0.03	0.03	0.02	0.02	0.01	0.01	0.01	0.00	0.00	
V-88.0	0.06	0.06	0.06	0.05	0.04	0.04	0.03	0.02	0.01	0.00	0.00	
V-87.0	0.10	0.09	0.09	0.08	0.07	0.05	0.04	0.03	0.02	0.01	0.00	
V-86.0	0.16	0.14	0.12	0.11	0.09	0.07	0.06	0.04	0.03	0.01	0.00	
V-85.0	0.22	0.19	0.16	0.14	0.12	0.09	0.07	0.05	0.04	0.01	0.00	
V-84.0	0.28	0.24	0.20	0.17	0.14	0.11	0.09	0.07	0.04	0.01	0.00	
V-83.0	0.34	0.30	0.25	0.21	0.17	0.13	0.10	0.08	0.05	0.01	0.00	
V-82.0	0.39	0.35	0.30	0.25	0.19	0.15	0.12	0.09	0.06	0.01	0.00	
V-81.0	0.44	0.40	0.35	0.29	0.23	0.17	0.13	0.10	0.07	0.02	0.00	
V-80.0	0.50	0.44	0.39	0.33	0.26	0.19	0.14	0.11	0.07	0.02	0.00	
V-79.0	0.55	0.49	0.43	0.36	0.29	0.22	0.16	0.12	0.08	0.02	0.00	
V-78.0	0.61	0.54	0.47	0.40	0.32	0.24	0.17	0.13	0.08	0.02	0.00	
V-77.0	0.68	0.60	0.52	0.44	0.35	0.26	0.19	0.13	0.09	0.02	0.00	
V-76.0	0.74	0.66	0.57	0.48	0.39	0.29	0.21	0.14	0.09	0.02	0.00	
V-75.0	0.81	0.72	0.62	0.53	0.42	0.31	0.22	0.15	0.09	0.02	0.00	
V-74.0	0.89	0.78	0.68	0.57	0.45	0.34	0.24	0.16	0.10	0.03	0.00	
V-73.0	0.97	0.86	0.74	0.61	0.49	0.36	0.26	0.17	0.10	0.03	0.00	
V-72.0	1.07	0.93	0.80	0.67	0.53	0.39	0.27	0.18	0.10	0.03	0.00	
V-71.0	1.16	1.01	0.87	0.72	0.56	0.42	0.29	0.19	0.11	0.03	0.00	
V-70.0	1.28	1.10	0.94	0.77	0.60	0.45	0.31	0.20	0.11	0.03	0.00	
V-69.0	1.39	1.19	1.01	0.83	0.65	0.48	0.33	0.21	0.11	0.03	0.00	
V-68.0	1.52	1.29	1.09	0.89	0.69	0.51	0.35	0.22	0.12	0.03	0.00	
V-67.0	1.65	1.40	1.17	0.95	0.73	0.53	0.36	0.23	0.12	0.03	0.00	
V-66.0	1.78	1.51	1.24	1.01	0.78	0.56	0.38	0.24	0.12	0.04	0.00	
V-65.0	1.95	1.63	1.34	1.08	0.82	0.60	0.40	0.25	0.13	0.04	0.00	
V-64.0	2.12	1.75	1.44	1.15	0.87	0.63	0.43	0.26	0.13	0.04	0.00	
V-63.0	2.30	1.88	1.53	1.21	0.92	0.66	0.45	0.27	0.13	0.04	0.00	
V-62.0	2.49	2.05	1.64	1.29	0.97	0.70	0.47	0.28	0.14	0.04	0.00	
V-61.0	2.69	2.21	1.75	1.37	1.02	0.73	0.49	0.29	0.14	0.04	0.00	
V-60.0	2.95	2.38	1.87	1.45	1.08	0.77	0.51	0.30	0.14	0.04	0.00	
V-59.0	3.28	2.58	2.00	1.53	1.13	0.80	0.53	0.31	0.15	0.04	0.00	
V-58.0	3.60	2.77	2.14	1.62	1.19	0.84	0.56	0.32	0.15	0.04	0.00	
V-57.0	4.02	2.97	2.29	1.72	1.25	0.87	0.58	0.33	0.15	0.04	0.00	
V-56.0	4.45	3.24	2.43	1.81	1.32	0.91	0.60	0.35	0.15	0.04	0.00	
V-55.0	4.87	3.51	2.60	1.91	1.39	0.95	0.62	0.36	0.16	0.04	0.00	
V-54.0	5.56	3.77	2.77	2.02	1.45	0.99	0.65	0.37	0.16	0.04	0.00	
V-53.0	6.23	4.06	2.94	2.13	1.52	1.04	0.67	0.38	0.16	0.04	0.00	
V-52.0	7.02	4.36	3.12	2.24	1.59	1.08	0.69	0.39	0.17	0.04	0.00	
V-51.0	8.28	4.64	3.32	2.35	1.67	1.12	0.72	0.40	0.17	0.04	0.00	
V-50.0	9.48	5.12	3.51	2.48	1.74	1.16	0.75	0.41	0.17	0.04	0.00	
V-49.0	10.57	5.63	3.69	2.62	1.81	1.22	0.78	0.42	0.18	0.04	0.00	
V-48.0	11.53	6.12	3.93	2.75	1.88	1.27	0.80	0.43	0.18	0.04	0.00	
V-47.0	12.48	6.74	4.17	2.88	1.96	1.32	0.83	0.44	0.18	0.04	0.00	
V-46.0	13.39	7.46	4.41	3.01	2.04	1.37	0.85	0.45	0.19	0.04	0.00	
V-45.0	14.23	8.12	4.64	3.16	2.12	1.42	0.88	0.46	0.19	0.04	0.00	
V-44.0	15.02	8.71	5.01	3.30	2.20	1.46	0.91	0.47	0.19	0.04	0.00	
V-43.0	15.76	9.49	5.35	3.44	2.28	1.51	0.93	0.48	0.19	0.04	0.00	
V-42.0	16.37	10.27	5.68	3.57	2.36	1.57	0.96	0.48	0.20	0.04	0.00	
V-41.0	16.94	11.02	5.98	3.72	2.46	1.62	0.99	0.49	0.20	0.04	0.00	
V-40.0	17.48	11.68	6.33	3.88	2.56	1.67	1.01	0.50	0.20	0.04	0.00	
V-39.0	18.00	12.14	6.68	4.03	2.66	1.72	1.04	0.50	0.20	0.04	0.00	
V-38.0	18.51	12.57	7.01	4.17	2.75	1.77	1.06	0.51	0.20	0.04	0.00	
V-37.0	19.04	12.95	7.32	4.30	2.84	1.82	1.08	0.51	0.20	0.04	0.00	
V-36.0	19.58	13.31	7.66	4.45	2.94	1.87	1.10	0.52	0.21	0.04	0.00	
V-35.0	20.08	13.73	8.07	4.64	3.04	1.92	1.13	0.53	0.21	0.04	0.00	
V-34.0	20.56	14.17	8.43	4.82	3.14	1.97	1.15	0.54	0.21	0.05	0.00	
V-33.0	21.03	14.61	8.74	4.99	3.24	2.02	1.17	0.55	0.21	0.05	0.00	
V-32.0	21.49	15.06	9.01	5.15	3.34	2.06	1.19	0.55	0.21	0.05	0.00	
V-31.0	21.95	15.54	9.24	5.30	3.43	2.11	1.21	0.56	0.21	0.05	0.00	
V-30.0	22.40	16.03	9.49	5.49	3.52	2.15	1.23	0.56	0.21	0.05	0.00	
V-29.0	22.82	16.52	9.74	5.69	3.61	2.20	1.24	0.56	0.21	0.05	0.00	
V-28.0	23.22	16.98	9.99	5.88	3.70	2.24	1.26	0.57	0.21	0.05	0.00	
V-27.0	23.66	17.43	10.24	6.05	3.78	2.30	1.27	0.57	0.21	0.05	0.00	
V-26.0	24.10	17.80	10.50	6.20	3.86	2.35	1.28	0.57	0.21	0.05	0.00	
V-25.0	24.50	18.11	10.81	6.34	3.94	2.40	1.30	0.57	0.21	0.05	0.00	
V-24.0	24.88	18.40	11.18	6.47	4.02	2.45	1.32	0.57	0.21	0.05	0.00	
V-23.0	25.24	18.67	11.52	6.59	4.10	2.50	1.34	0.56	0.21	0.05	0.00	
V-22.0	25.66	18.93	11.84	6.71	4.17	2.54	1.36	0.56	0.21	0.05	0.00	
V-21.0	26.20	19.16	12.13	6.82	4.23	2.58	1.38	0.56	0.21	0.05	0.00	
V-20.0	26.72	19.38	12.39	6.93	4.32	2.62	1.40	0.56	0.21	0.05	0.00	
V-19.0	27.22	19.57	12.63	7.04	4.40	2.66	1.41	0.56	0.21	0.05	0.00	
V-18.0	27.70	19.76	12.83	7.14	4.47	2.70	1.43	0.56	0.21	0.05	0.00	

Luminaire

Code 216131.115
Name START SM HPS-T 150W

Measurum.

Code CL2303/11-01A
Name START SM ST 150W

Luminaire Flux		12309.27 lm		Luminaire Power		150.00 W		Efficacy		82.06 lm/W		Efficiency		70.34%	
Lamps Flux		17500.00 lm		Maximum value		413.78 cd/klm		Position		H=0.00 V=0.00		VH		VH symm in H0	
Luminous Intensity Table cd/klm														Table 4/9	
	H 0.00	H 2.50	H 5.00	H 7.50	H 10.00	H 12.50	H 15.00	H 17.50	H 20.00	H 22.50	H 25.00	H 27.50	H 30.00		
V-17.0	363.73	362.89	361.00	358.31	352.94	346.72	338.54	327.70	313.98	298.17	280.26	262.48	247.15		
V-16.0	369.46	368.53	366.67	364.14	358.97	352.83	344.39	332.96	319.00	302.49	284.67	267.19	251.41		
V-15.0	374.35	373.38	371.54	368.78	364.28	358.01	349.38	337.80	323.70	306.99	289.14	271.73	255.68		
V-14.0	378.86	377.89	376.06	373.01	368.58	362.40	353.76	342.43	328.22	311.43	294.05	276.42	260.05		
V-13.0	382.80	381.90	380.07	376.84	372.31	366.45	357.99	347.03	332.66	316.29	299.09	281.08	264.39		
V-12.0	385.83	385.14	383.41	380.12	375.73	369.91	361.89	351.10	337.01	321.03	303.65	285.48	268.48		
V-11.0	388.26	387.87	386.28	383.33	378.96	373.43	365.67	354.61	340.95	325.32	307.65	289.48	272.38		
V-10.0	391.05	390.80	389.19	386.64	382.31	377.09	369.41	358.21	344.63	328.83	311.28	293.16	275.94		
V-9.0	394.87	394.33	392.75	390.37	385.94	380.83	372.95	361.89	348.03	332.21	314.79	296.67	279.15		
V-8.0	399.26	398.35	396.71	394.39	389.87	384.82	376.82	365.97	351.38	335.58	318.21	299.97	282.25		
V-7.0	403.45	402.50	400.75	398.40	393.99	388.97	380.81	370.17	355.15	339.02	321.31	302.88	285.32		
V-6.0	406.99	406.27	404.49	402.05	397.89	393.06	385.09	374.06	358.93	342.46	323.97	305.37	288.09		
V-5.0	409.71	409.18	407.44	404.93	400.98	396.01	388.23	377.36	362.04	345.54	326.26	307.57	290.42		
V-4.0	411.54	410.95	409.10	406.33	402.62	397.87	389.87	379.31	364.10	347.50	328.08	309.51	292.25		
V-3.0	412.66	411.82	410.00	407.07	403.26	398.48	390.53	379.76	365.02	348.25	329.27	310.93	293.57		
V-2.0	413.32	412.27	410.42	407.48	403.65	398.43	390.76	379.52	365.02	348.13	329.72	311.62	294.40		
V-1.0	413.68	412.59	410.79	407.88	403.99	398.42	390.91	379.15	364.51	347.59	329.63	311.72	294.83		
V 0.0	413.78	412.80	410.93	408.21	404.14	398.56	390.96	379.05	364.15	347.26	329.49	311.61	294.96		
V 1.0	413.68	412.59	410.79	407.88	403.99	398.42	390.91	379.15	364.51	347.59	329.63	311.72	294.83		
V 2.0	413.32	412.27	410.42	407.48	403.65	398.43	390.76	379.52	365.02	348.13	329.72	311.62	294.40		
V 3.0	412.66	411.82	410.00	407.07	403.26	398.48	390.53	379.76	365.02	348.25	329.27	310.93	293.57		
V 4.0	411.54	410.95	409.10	406.33	402.62	397.87	389.87	379.31	364.10	347.50	328.08	309.51	292.25		
V 5.0	409.71	409.18	407.44	404.93	400.98	396.01	388.23	377.36	362.04	345.54	326.26	307.57	290.42		
V 6.0	406.99	406.27	404.49	402.05	397.89	393.06	385.09	374.06	358.93	342.46	323.97	305.37	288.09		
V 7.0	403.45	402.50	400.75	398.40	393.99	388.97	380.81	370.17	355.15	339.02	321.31	302.88	285.32		
V 8.0	399.26	398.35	396.71	394.39	389.87	384.82	376.82	365.97	351.38	335.58	318.21	299.97	282.25		
V 9.0	394.87	394.33	392.75	390.37	385.94	380.83	372.95	361.89	348.03	332.21	314.79	296.67	279.15		
V 10.0	391.05	390.80	389.19	386.64	382.31	377.09	369.41	358.21	344.63	328.83	311.28	293.16	275.94		
V 11.0	388.26	387.87	386.28	383.33	378.96	373.43	365.67	354.61	340.95	325.32	307.65	289.48	272.38		
V 12.0	385.83	385.14	383.41	380.12	375.73	369.91	361.89	351.10	337.01	321.03	303.65	285.48	268.48		
V 13.0	382.80	381.90	380.07	376.84	372.31	366.45	357.99	347.03	332.66	316.29	299.09	281.08	264.39		
V 14.0	378.86	377.89	376.06	373.01	368.58	362.40	353.76	342.43	328.22	311.43	294.05	276.42	260.05		
V 15.0	374.35	373.38	371.54	368.78	364.28	358.01	349.38	337.80	323.70	306.99	289.14	271.73	255.68		
V 16.0	369.46	368.53	366.67	364.14	358.97	352.83	344.39	332.96	319.00	302.49	284.67	267.19	251.41		
V 17.0	363.73	362.89	361.00	358.31	352.94	346.72	338.54	327.70	313.98	298.17	280.26	262.48	247.15		
V 18.0	356.55	355.82	353.96	350.99	345.97	339.94	331.95	321.67	308.35	292.73	275.36	257.78	242.69		
V 19.0	347.99	347.35	345.61	342.57	338.06	332.23	324.47	314.12	301.36	286.29	269.82	252.58	237.80		
V 20.0	338.80	338.27	336.58	333.65	329.56	323.81	315.99	305.86	293.63	279.12	263.28	246.68	232.36		
V 21.0	329.53	329.12	327.34	324.61	320.74	314.90	307.24	297.32	285.48	271.32	256.07	240.02	226.27		
V 22.0	319.83	319.50	317.60	315.02	311.24	305.29	297.82	288.21	276.47	262.86	248.16	232.84	219.52		
V 23.0	309.10	308.75	306.80	304.27	300.35	294.52	287.23	277.71	266.45	253.58	239.60	225.20	212.41		
V 24.0	297.36	296.90	295.06	292.48	288.49	282.77	275.57	266.62	255.94	243.90	230.73	217.42	205.46		
V 25.0	285.20	284.73	283.16	280.61	276.85	271.41	264.37	255.92	245.96	234.44	222.27	210.05	198.91		
V 26.0	273.22	272.97	271.78	269.52	266.08	261.02	254.44	246.37	236.91	225.87	214.57	203.13	192.78		
V 27.0	261.97	262.00	261.16	259.29	256.16	251.51	245.50	237.93	228.66	218.19	207.44	196.79	187.00		
V 28.0	251.93	252.03	251.25	249.71	246.86	242.54	236.96	229.73	220.82	210.85	200.66	190.68	181.39		
V 29.0	243.07	242.99	241.99	240.69	238.06	233.96	228.66	221.74	213.15	203.65	194.10	184.73	176.03		
V 30.0	234.78	234.49	233.29	232.13	229.73	225.84	220.81	214.16	205.87	196.82	187.87	179.08	171.00		
V 31.0	226.55	226.19	225.08	224.01	221.84	218.28	213.50	207.11	199.16	190.62	182.09	173.78	166.25		
V 32.0	218.44	218.15	217.25	216.19	214.23	211.03	206.50	200.48	192.97	184.88	176.85	168.86	161.95		
V 33.0	210.64	210.49	209.65	208.48	206.66	203.75	199.49	194.04	187.01	179.39	171.88	164.35	157.90		
V 34.0	202.98	202.99	202.05	200.71	198.93	196.25	192.33	187.36	180.97	173.94	167.00	160.09	153.95		
V 35.0	194.98	195.10	194.13	192.73	191.00	188.52	184.93	180.40	174.64	168.32	162.05	155.68	149.91		
V 36.0	186.35	186.49	185.75	184.51	182.87	180.65	177.31	173.17	168.04	162.47	156.81	150.98	145.63		
V 37.0	177.53	177.61	177.19	176.20	174.69	172.73	169.60	165.84	161.33	156.47	151.33	146.02	141.20		
V 38.0	169.14	169.14	168.91	168.09	166.67	164.81	162.02	158.70	154.73	150.49	145.85	141.12	136.81		
V 39.0	161.60	161.53	161.31	160.55	159.13	157.32	154.91	152.04	148.55	144.78	140.68	136.59	132.80		
V 40.0	155.12	154.99	154.70	153.98	152.54	150.82	148.73	146.23	143.13	139.79	136.14	132.62	129.18		
V 41.0	149.77	149.61	149.25	148.57	147.23	145.59	143.73	141.54	138.78	135.78	132.58	129.22	125.94		
V 42.0	145.27	145.10	144.72	144.08	142.87	141.37	139.70	137.72	135.20	132.47	129.56	126.32			

Luminaire

Code 216131.115
Name START SM HPS-T 150W

Measurum.

Code CL2303/11-01A
Name START SM ST 150W

Luminaire Flux		12309.27 lm		Luminaire Power		150.00 W		Efficacy		82.06 lm/W		Efficiency		70.34%	
Lamps Flux		17500.00 lm		Maximum value		413.78 cd/klm		Position		H=0.00 V=0.00		VH		VH symm in H0	
Luminous Intensity Table cd/klm														Table 5/9	
	H 32.50	H 35.00	H 37.50	H 40.00	H 42.50	H 45.00	H 47.50	H 50.00	H 52.50	H 55.00	H 57.50	H 60.00	H 62.50		
V-17.0	232.70	221.35	210.08	197.67	183.10	164.38	142.67	120.39	98.87	79.76	63.05	49.77	38.63	49.77	38.63
V-16.0	237.13	225.62	214.03	201.40	187.19	168.36	146.37	123.45	100.95	81.45	64.24	50.63	39.32	50.63	39.32
V-15.0	241.49	229.70	217.81	205.02	191.06	172.24	149.96	126.51	102.95	83.02	65.46	51.46	39.98	51.46	39.98
V-14.0	245.57	233.52	221.37	208.58	194.78	175.94	153.45	129.52	105.09	84.47	66.56	52.28	40.61	52.28	40.61
V-13.0	249.67	237.04	224.79	212.04	198.33	179.61	156.81	132.44	107.22	85.81	67.54	53.12	41.21	53.12	41.21
V-12.0	253.64	240.38	228.07	215.48	201.56	183.19	160.03	135.22	109.31	87.20	68.39	53.90	41.77	53.90	41.77
V-11.0	257.32	243.56	231.15	218.88	204.62	186.62	163.11	137.73	111.36	88.53	69.13	54.62	42.27	54.62	42.27
V-10.0	260.68	246.56	234.06	222.16	207.62	189.59	166.04	140.03	113.33	89.80	69.80	55.28	42.71	55.28	42.71
V -9.0	263.65	249.35	236.80	225.06	210.51	192.22	168.82	142.18	115.20	91.02	70.54	55.88	43.09	55.88	43.09
V -8.0	266.28	251.98	239.37	227.59	213.20	194.66	171.43	144.21	117.00	92.21	71.37	56.39	43.40	56.39	43.40
V -7.0	268.72	254.39	241.79	229.81	215.59	196.92	173.70	146.13	118.66	93.36	72.25	56.86	43.65	56.86	43.65
V -6.0	271.14	256.60	244.03	231.75	217.54	198.98	175.73	147.97	120.16	94.48	73.13	57.27	43.85	57.27	43.85
V -5.0	273.63	258.61	246.02	233.46	219.19	200.79	177.53	149.72	121.48	95.52	73.98	57.63	44.01	57.63	44.01
V -4.0	275.74	260.41	247.70	234.93	220.52	202.31	179.07	151.33	122.61	96.46	74.75	57.93	44.12	57.93	44.12
V -3.0	277.23	261.97	249.04	236.15	221.55	203.49	180.33	152.72	123.53	97.24	75.42	58.17	44.19	58.17	44.19
V -2.0	277.98	263.22	250.01	237.08	222.28	204.31	181.27	153.80	124.22	97.85	75.93	58.34	44.23	58.34	44.23
V -1.0	278.25	264.07	250.61	237.66	222.71	204.80	181.86	154.51	124.65	98.24	76.27	58.44	44.26	58.44	44.26
V 0.0	278.19	264.38	250.78	237.86	222.91	204.96	182.16	154.76	124.70	98.38	76.31	58.48	44.27	58.48	44.27
V 1.0	278.25	264.07	250.61	237.66	222.71	204.80	181.86	154.51	124.65	98.24	76.27	58.44	44.26	58.44	44.26
V 2.0	277.88	263.22	250.01	237.08	222.28	204.31	181.27	153.80	124.22	97.85	75.93	58.34	44.23	58.34	44.23
V 3.0	277.23	261.97	249.04	236.15	221.55	203.49	180.33	152.72	123.53	97.24	75.42	58.17	44.19	58.17	44.19
V 4.0	275.74	260.41	247.70	234.93	220.52	202.31	179.07	151.33	122.61	96.46	74.75	57.93	44.12	57.93	44.12
V 5.0	273.63	258.61	246.02	233.46	219.19	200.79	177.53	149.72	121.48	95.52	73.98	57.63	44.01	57.63	44.01
V 6.0	271.14	256.60	244.03	231.75	217.54	198.98	175.73	147.97	120.16	94.48	73.13	57.27	43.85	57.27	43.85
V 7.0	268.72	254.39	241.79	229.81	215.59	196.92	173.70	146.13	118.66	93.36	72.25	56.86	43.65	56.86	43.65
V 8.0	266.28	251.98	239.37	227.59	213.20	194.66	171.43	144.21	117.00	92.21	71.37	56.39	43.40	56.39	43.40
V 9.0	263.65	249.35	236.80	225.06	210.51	192.22	168.82	142.18	115.20	91.02	70.54	55.88	43.09	55.88	43.09
V 10.0	260.68	246.56	234.06	222.16	207.62	189.59	166.04	140.03	113.33	89.80	69.80	55.28	42.71	55.28	42.71
V 11.0	257.32	243.56	231.15	218.88	204.62	186.62	163.11	137.73	111.36	88.53	69.13	54.62	42.27	54.62	42.27
V 12.0	253.64	240.38	228.07	215.48	201.56	183.19	160.03	135.22	109.31	87.20	68.39	53.90	41.77	53.90	41.77
V 13.0	249.67	237.04	224.79	212.04	198.33	179.61	156.81	132.44	107.22	85.81	67.54	53.12	41.21	53.12	41.21
V 14.0	245.57	233.52	221.37	208.58	194.78	175.94	153.45	129.52	105.09	84.47	66.56	52.28	40.61	52.28	40.61
V 15.0	241.49	229.70	217.81	205.02	191.06	172.24	149.96	126.51	102.95	83.02	65.46	51.46	39.98	51.46	39.98
V 16.0	237.13	225.62	214.03	201.40	187.19	168.36	146.37	123.45	100.95	81.45	64.24	50.63	39.32	50.63	39.32
V 17.0	232.70	221.35	210.08	197.67	183.10	164.38	142.67	120.39	98.87	79.76	63.05	49.77	38.63	49.77	38.63
V 18.0	228.30	216.94	205.96	193.45	178.93	160.33	138.86	117.38	96.64	77.94	61.95	48.91	37.93	48.91	37.93
V 19.0	223.77	212.33	201.49	188.82	174.78	156.21	134.97	114.34	94.26	76.10	60.82	48.04	37.23	48.04	37.23
V 20.0	218.89	207.42	196.74	183.97	170.34	151.97	131.05	111.27	91.80	74.22	59.67	47.18	36.53	47.18	36.53
V 21.0	213.42	202.06	191.58	179.14	165.50	147.67	127.13	108.20	89.32	72.31	58.49	46.37	35.84	46.37	35.84
V 22.0	207.40	196.36	186.10	174.31	160.66	143.34	123.41	105.14	86.79	70.39	57.33	45.53	35.16	45.53	35.16
V 23.0	201.06	190.49	180.62	169.42	155.89	138.87	119.81	102.04	84.25	68.64	56.19	44.65	34.49	44.65	34.49
V 24.0	194.80	184.84	175.36	164.40	151.28	134.50	116.26	98.95	81.83	67.10	55.02	43.71	33.84	43.71	33.84
V 25.0	188.78	179.43	170.29	159.51	146.82	130.35	112.89	95.91	79.47	65.59	53.82	42.74	33.20	42.74	33.20
V 26.0	183.19	174.36	165.45	154.93	142.34	126.43	109.63	92.93	77.14	64.10	52.62	41.79	32.57	41.79	32.57
V 27.0	177.93	169.49	160.81	150.56	138.03	122.65	106.44	90.05	74.98	62.62	51.42	40.81	31.93	40.81	31.93
V 28.0	172.94	164.86	156.35	146.38	133.90	119.05	103.35	87.38	73.02	61.10	50.18	39.82	31.29	39.82	31.29
V 29.0	168.17	160.45	152.10	142.36	129.95	115.53	100.31	84.71	71.08	59.55	48.90	38.87	30.58	38.87	30.58
V 30.0	163.59	156.28	148.01	138.31	126.22	112.15	97.34	82.16	69.28	58.00	47.64	38.03	29.84	38.03	29.84
V 31.0	159.33	152.24	144.10	134.41	122.69	108.90	94.40	79.76	67.58	56.42	46.41	37.14	29.08	37.14	29.08
V 32.0	155.28	148.37	140.44	130.80	119.21	105.74	91.50	77.37	65.87	54.82	45.20	36.20	28.31	36.20	28.31
V 33.0	151.39	144.74	136.88	127.39	115.75	102.73	88.69	75.33	64.13	53.35	44.04	35.24	27.61	35.24	27.61
V 34.0	147.66	141.27	133.39	124.08	112.42	99.79	85.90	73.33	62.37	51.94	42.89	34.26	26.93	34.26	26.93
V 35.0	143.94	137.87	130.02	120.79	109.14	96.89	83.37	71.44	60.61	50.53	41.72	33.22	26.26	33.22	26.26
V 36.0	140.15	134.33	126.64	117.39	106.08	94.06	80.87	69.64	58.92	49.27	40.48	32.24	25.63	32.24	25.63
V 37.0	136.33	130.72	123.26	114.01	103.12	91.20	78.64	67.80	57.22	47.98	39.18	31.39	25.04	31.39	25.04
V 38.0	132.54	127.07	119.90	110.62	100.24	88.40	76.47	65.88	55.67	46.64	37.83	30.56	24.42	30.56	24.42
V 39.0	128.90	123.54	116.60	107.34	97.38	85.64	74.42	63.94	54.13	45.21	36.62	29.79	23.76	29.79	23.76
V 40.0	125.47	120.14	113.22	104.06	94.42	82.97	72.41	62.03	52.58	43.72	35.44	29.10	23.14	29.10	23.14
V 41.0	122.25	116.91	109.90	100.94	91.48	80.44	70.34	60.06	51.03	42.19	34.33	28.37	22.50	28.37	22.50
V 42.0	119.27	113.87	106.64	97.93	88.57	78.05	68.25	58.24	49.42	40.63	33.45	27.55	21.83	27.55	21.83
V 43.0	116.57	111.07	103.63	95.10	85.82	75.80	66.09	56.36	47.68	39.19	32.54	26.63	21.25	26.63	21.25
V 44.0	114.														

Luminaire

Code 216131.115
Name START SM HPS-T 150W

Measur.

Code CL2303/11-01A
Name START SM ST 150W

Luminaire Flux	12309.27 lm	Luminaire Power	150.00 W	Efficacy	82.06 lm/W	Efficiency	70.34%
Lamps Flux	17500.00 lm	Maximum value	413.78 cd/klm	Position	H=0.00 V=0.00	VH	VH symm in H0

Luminous Intensity Table cd/klm Table 6/9

	H 65.00	H 67.50	H 70.00	H 72.50	H 75.00	H 77.50	H 80.00	H 82.50	H 85.00	H 87.50	H 90.00
V-17.0	28.16	19.95	13.02	7.25	4.54	2.73	1.44	0.56	0.21	0.05	0.00
V-16.0	28.59	20.13	13.19	7.35	4.60	2.77	1.45	0.56	0.21	0.05	0.00
V-15.0	29.03	20.30	13.34	7.45	4.65	2.80	1.46	0.56	0.21	0.05	0.00
V-14.0	29.46	20.46	13.46	7.59	4.70	2.83	1.47	0.56	0.20	0.05	0.00
V-13.0	29.84	20.62	13.58	7.73	4.75	2.86	1.48	0.56	0.20	0.05	0.00
V-12.0	30.18	20.77	13.68	7.89	4.78	2.89	1.49	0.55	0.20	0.05	0.00
V-11.0	30.47	20.94	13.77	8.03	4.82	2.91	1.50	0.55	0.20	0.05	0.00
V-10.0	30.69	21.11	13.84	8.12	4.85	2.93	1.51	0.55	0.20	0.05	0.00
V-9.0	30.86	21.25	13.92	8.23	4.87	2.95	1.51	0.55	0.20	0.05	0.00
V-8.0	30.97	21.37	13.98	8.33	4.89	2.97	1.52	0.55	0.20	0.05	0.00
V-7.0	31.03	21.47	14.04	8.41	4.91	2.98	1.52	0.54	0.20	0.05	0.00
V-6.0	31.05	21.54	14.09	8.48	4.92	3.00	1.53	0.54	0.20	0.05	0.00
V-5.0	31.05	21.60	14.13	8.53	4.93	3.01	1.53	0.54	0.20	0.05	0.00
V-4.0	31.02	21.64	14.16	8.57	4.94	3.01	1.53	0.54	0.20	0.05	0.00
V-3.0	30.99	21.67	14.19	8.61	4.95	3.02	1.54	0.54	0.20	0.05	0.00
V-2.0	30.95	21.68	14.21	8.63	4.95	3.03	1.54	0.54	0.20	0.05	0.00
V-1.0	30.92	21.69	14.23	8.64	4.95	3.03	1.54	0.54	0.20	0.05	0.00
V 0.0	30.91	21.67	14.23	8.61	4.95	3.03	1.54	0.52	0.20	0.05	0.00
V 1.0	30.92	21.69	14.23	8.64	4.95	3.03	1.54	0.54	0.20	0.05	0.00
V 2.0	30.95	21.68	14.21	8.63	4.95	3.03	1.54	0.54	0.20	0.05	0.00
V 3.0	30.99	21.67	14.19	8.61	4.95	3.02	1.54	0.54	0.20	0.05	0.00
V 4.0	31.02	21.64	14.16	8.57	4.94	3.01	1.53	0.54	0.20	0.05	0.00
V 5.0	31.05	21.60	14.13	8.53	4.93	3.01	1.53	0.54	0.20	0.05	0.00
V 6.0	31.05	21.54	14.09	8.48	4.92	3.00	1.53	0.54	0.20	0.05	0.00
V 7.0	31.03	21.47	14.04	8.41	4.91	2.98	1.52	0.54	0.20	0.05	0.00
V 8.0	30.97	21.37	13.98	8.33	4.89	2.97	1.52	0.55	0.20	0.05	0.00
V 9.0	30.86	21.25	13.92	8.23	4.87	2.95	1.51	0.55	0.20	0.05	0.00
V 10.0	30.69	21.11	13.84	8.12	4.85	2.93	1.51	0.55	0.20	0.05	0.00
V 11.0	30.47	20.94	13.77	8.03	4.82	2.91	1.50	0.55	0.20	0.05	0.00
V 12.0	30.18	20.77	13.68	7.89	4.78	2.89	1.49	0.55	0.20	0.05	0.00
V 13.0	29.84	20.62	13.58	7.73	4.75	2.86	1.48	0.56	0.20	0.05	0.00
V 14.0	29.46	20.46	13.46	7.59	4.70	2.83	1.47	0.56	0.20	0.05	0.00
V 15.0	29.03	20.30	13.34	7.45	4.65	2.80	1.46	0.56	0.21	0.05	0.00
V 16.0	28.59	20.13	13.19	7.35	4.60	2.77	1.45	0.56	0.21	0.05	0.00
V 17.0	28.16	19.95	13.02	7.25	4.54	2.73	1.44	0.56	0.21	0.05	0.00
V 18.0	27.70	19.76	12.83	7.14	4.47	2.70	1.43	0.56	0.21	0.05	0.00
V 19.0	27.22	19.57	12.63	7.04	4.40	2.66	1.41	0.56	0.21	0.05	0.00
V 20.0	26.72	19.38	12.39	6.93	4.32	2.62	1.40	0.56	0.21	0.05	0.00
V 21.0	26.20	19.16	12.13	6.82	4.23	2.58	1.38	0.56	0.21	0.05	0.00
V 22.0	25.66	18.93	11.84	6.71	4.17	2.54	1.36	0.56	0.21	0.05	0.00
V 23.0	25.24	18.67	11.52	6.59	4.10	2.50	1.34	0.56	0.21	0.05	0.00
V 24.0	24.88	18.40	11.18	6.47	4.02	2.45	1.32	0.57	0.21	0.05	0.00
V 25.0	24.50	18.11	10.81	6.34	3.94	2.40	1.30	0.57	0.21	0.05	0.00
V 26.0	24.10	17.80	10.50	6.20	3.86	2.35	1.28	0.57	0.21	0.05	0.00
V 27.0	23.66	17.43	10.24	6.05	3.78	2.30	1.27	0.57	0.21	0.05	0.00
V 28.0	23.22	16.98	9.99	5.88	3.70	2.24	1.26	0.57	0.21	0.05	0.00
V 29.0	22.82	16.52	9.74	5.69	3.61	2.20	1.24	0.56	0.21	0.05	0.00
V 30.0	22.40	16.03	9.49	5.49	3.52	2.15	1.23	0.56	0.21	0.05	0.00
V 31.0	21.95	15.54	9.24	5.30	3.43	2.11	1.21	0.56	0.21	0.05	0.00
V 32.0	21.49	15.06	9.01	5.15	3.34	2.06	1.19	0.55	0.21	0.05	0.00
V 33.0	21.03	14.61	8.74	4.99	3.24	2.02	1.17	0.55	0.21	0.05	0.00
V 34.0	20.56	14.17	8.43	4.82	3.14	1.97	1.15	0.54	0.21	0.05	0.00
V 35.0	20.08	13.73	8.07	4.64	3.04	1.92	1.13	0.53	0.21	0.04	0.00
V 36.0	19.58	13.31	7.66	4.45	2.94	1.87	1.10	0.52	0.21	0.04	0.00
V 37.0	19.04	12.95	7.32	4.30	2.84	1.82	1.08	0.51	0.20	0.04	0.00
V 38.0	18.51	12.57	7.01	4.17	2.75	1.77	1.06	0.51	0.20	0.04	0.00
V 39.0	18.00	12.14	6.68	4.03	2.66	1.72	1.04	0.50	0.20	0.04	0.00
V 40.0	17.48	11.68	6.33	3.88	2.56	1.67	1.01	0.50	0.20	0.04	0.00
V 41.0	16.94	11.02	5.98	3.72	2.46	1.62	0.99	0.49	0.20	0.04	0.00
V 42.0	16.37	10.27	5.68	3.57	2.36	1.57	0.96	0.48	0.20	0.04	0.00
V 43.0	15.76	9.49	5.35	3.44	2.28	1.51	0.93	0.48	0.19	0.04	0.00
V 44.0	15.02	8.71	5.01	3.30	2.20	1.46	0.91	0.47	0.19	0.04	0.00
V 45.0	14.23	8.12	4.64	3.16	2.12	1.42	0.88	0.46	0.19	0.04	0.00
V 46.0	13.39	7.46	4.41	3.01	2.04	1.37	0.85	0.45	0.19	0.04	0.00
V 47.0	12.48	6.74	4.17	2.88	1.96	1.32	0.83	0.44	0.18	0.04	0.00
V 48.0	11.53	6.12	3.93	2.75	1.88	1.27	0.80	0.43	0.18	0.04	0.00
V 49.0	10.57	5.63	3.69	2.62	1.81	1.22	0.78	0.42	0.18	0.04	0.00
V 50.0	9.48	5.12	3.51	2.48	1.74	1.16	0.75	0.41	0.17	0.04	0.00
V 51.0	8.28	4.64	3.32	2.35	1.67	1.12	0.72	0.40	0.17	0.04	0.00
V 52.0	7.02	4.36	3.12	2.24	1.59	1.08	0.69	0.39	0.17	0.04	0.00
V 53.0	6.23	4.06	2.94	2.13	1.52	1.04	0.67	0.38	0.16	0.04	0.00
V 54.0	5.56	3.77	2.77	2.02	1.45	0.99	0.65	0.37	0.16	0.04	0.00
V 55.0	4.87	3.51	2.60	1.91	1.39	0.95	0.62	0.36	0.16	0.04	0.00

Luminaire

Code 216131.115
Name START SM HPS-T 150W

Measur.

Code CL2303/11-01A
Name START SM ST 150W

Luminaire Flux	12309.27 lm		Luminaire Power		150.00 W		Efficacy		82.06 lm/W		Efficiency		70.34%	
Lamps Flux	17500.00 lm		Maximum value		413.78 cd/klm		Position		H=0.00 V=0.00		VH		VH symm in H0	
Luminous Intensity Table cd/klm														
Table 7/9														
	H 0.00	H 2.50	H 5.00	H 7.50	H 10.00	H 12.50	H 15.00	H 17.50	H 20.00	H 22.50	H 25.00	H 27.50	H 30.00	
V 56.0	114.11	113.98	113.60	112.95	112.09	110.99	109.47	107.60	105.41	102.87	99.73	95.20	88.74	
V 57.0	112.39	112.22	111.81	111.13	110.23	109.06	107.43	105.47	103.23	100.66	97.40	92.48	85.60	
V 58.0	110.30	110.12	109.71	109.01	108.07	106.83	105.19	103.20	100.95	98.32	94.90	89.57	82.43	
V 59.0	108.01	107.85	107.46	106.77	105.80	104.50	102.89	100.95	98.65	95.99	92.27	86.49	79.26	
V 60.0	106.12	105.95	105.55	104.84	103.86	102.54	100.89	99.01	96.70	93.93	89.71	83.45	76.10	
V 61.0	104.72	104.49	103.97	103.15	102.10	100.83	99.20	97.17	95.03	91.96	87.19	80.32	72.91	
V 62.0	101.92	101.66	101.04	100.14	99.05	97.85	96.44	94.20	92.30	89.11	83.84	76.73	69.51	
V 63.0	95.36	95.15	94.50	93.64	92.64	91.61	90.63	88.35	86.73	83.82	78.45	71.88	65.08	
V 64.0	83.28	83.18	82.56	81.84	81.05	80.29	79.73	77.80	76.41	74.27	69.37	64.35	57.97	
V 65.0	64.49	64.55	64.05	63.51	62.88	62.29	62.07	60.90	59.50	58.61	54.56	51.65	46.04	
V 66.0	39.63	39.85	39.72	39.67	39.47	38.96	38.32	38.09	37.31	36.01	34.64	32.15	29.73	
V 67.0	16.41	16.77	17.21	17.55	17.42	17.07	16.29	16.39	17.15	15.28	15.72	14.38	13.78	
V 68.0	7.89	8.22	7.70	6.51	6.48	7.63	8.00	6.68	7.21	7.56	6.39	6.99	5.98	
V 69.0	6.90	6.90	6.85	6.77	6.67	6.50	6.27	6.08	5.88	5.67	5.52	5.34	5.10	
V 70.0	5.91	5.91	5.89	5.84	5.76	5.63	5.45	5.24	5.07	4.91	4.75	4.60	4.48	
V 71.0	5.10	5.10	5.10	5.14	5.16	5.07	4.87	4.62	4.49	4.34	4.10	4.10	4.20	
V 72.0	4.74	4.72	4.74	4.77	4.64	4.34	4.17	4.27	4.17	3.75	3.75	4.02	3.65	
V 73.0	3.28	3.28	3.29	3.30	3.28	3.25	3.23	3.15	2.99	3.00	3.00	2.80	2.86	
V 74.0	2.74	2.74	2.74	2.73	2.71	2.69	2.66	2.62	2.54	2.53	2.52	2.47	2.41	
V 75.0	2.57	2.58	2.57	2.55	2.52	2.49	2.46	2.44	2.42	2.39	2.35	2.33	2.29	
V 76.0	2.29	2.30	2.29	2.28	2.27	2.25	2.23	2.21	2.19	2.19	2.16	2.13	2.09	
V 77.0	1.92	1.93	1.93	1.93	1.93	1.92	1.92	1.91	1.89	1.88	1.88	1.86	1.83	
V 78.0	1.62	1.62	1.62	1.63	1.64	1.64	1.64	1.64	1.64	1.63	1.62	1.62	1.60	
V 79.0	1.44	1.44	1.44	1.45	1.45	1.46	1.46	1.46	1.46	1.45	1.45	1.44	1.43	
V 80.0	1.31	1.32	1.31	1.32	1.33	1.33	1.33	1.33	1.33	1.32	1.32	1.31	1.29	
V 81.0	1.20	1.20	1.20	1.21	1.21	1.22	1.21	1.21	1.21	1.20	1.19	1.18	1.16	
V 82.0	1.10	1.11	1.10	1.11	1.11	1.12	1.11	1.11	1.10	1.10	1.09	1.07	1.05	
V 83.0	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.03	1.03	1.02	1.01	0.99	0.97	
V 84.0	0.99	0.98	0.98	0.98	0.98	0.98	0.98	0.97	0.96	0.95	0.94	0.92	0.91	
V 85.0	0.91	0.90	0.90	0.90	0.90	0.89	0.89	0.88	0.87	0.86	0.84	0.82	0.80	
V 86.0	0.76	0.76	0.76	0.76	0.76	0.75	0.74	0.74	0.72	0.71	0.69	0.67	0.64	
V 87.0	0.58	0.58	0.58	0.58	0.57	0.57	0.56	0.55	0.54	0.53	0.50	0.48	0.45	
V 88.0	0.38	0.38	0.38	0.38	0.38	0.37	0.37	0.36	0.35	0.34	0.32	0.30	0.27	
V 89.0	0.19	0.19	0.19	0.19	0.19	0.18	0.18	0.18	0.17	0.16	0.15	0.14	0.12	
V 90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

Luminaire

Code 216131.115
Name START SM HPS-T 150W

Measur.

Code CL2303/11-01A
Name START SM ST 150W

Luminaire Flux	12309.27 lm	Luminaire Power	150.00 W	Efficacy	82.06 lm/W	Efficiency	70.34%
Lamps Flux	17500.00 lm	Maximum value	413.78 cd/klm	Position	H=0.00 V=0.00	VH	VH symm in H0

Luminous Intensity Table cd/klm Table 8/9

	H 32.50	H 35.00	H 37.50	H 40.00	H 42.50	H 45.00	H 47.50	H 50.00	H 52.50	H 55.00	H 57.50	H 60.00	H 62.50
V 56.0	81.26	73.64	65.78	57.87	50.38	43.27	36.90	32.02	27.78	23.80	19.56	14.19	7.61
V 57.0	78.09	70.46	62.64	54.89	47.63	40.81	35.04	30.64	26.69	22.69	18.64	12.47	6.63
V 58.0	74.91	67.30	59.57	52.00	44.94	38.38	33.25	29.29	25.60	21.65	17.06	10.52	5.58
V 59.0	71.73	64.18	56.60	49.25	42.36	36.29	31.79	28.10	24.54	20.64	15.48	8.61	4.76
V 60.0	68.59	61.13	53.74	46.52	39.85	34.34	30.37	26.97	23.47	19.35	13.24	7.17	4.08
V 61.0	65.42	58.09	50.80	43.74	37.36	32.55	29.04	25.93	22.35	17.96	10.86	5.66	3.43
V 62.0	62.03	54.84	47.64	40.81	34.93	30.87	27.69	24.71	20.94	15.82	8.82	4.73	3.07
V 63.0	57.85	50.94	43.91	37.32	32.25	28.82	26.07	23.30	19.33	13.40	6.76	3.80	2.71
V 64.0	51.61	45.44	38.41	32.70	28.86	26.11	23.66	20.36	16.56	10.55	5.30	3.23	2.48
V 65.0	41.71	35.68	30.41	26.43	23.62	21.06	19.48	16.63	13.42	7.47	3.97	2.77	2.28
V 66.0	26.59	22.99	20.26	17.55	16.34	15.16	14.22	11.89	9.50	5.36	3.21	2.44	2.09
V 67.0	12.40	11.82	9.89	10.43	9.41	8.93	8.73	7.99	6.20	3.36	2.65	2.20	1.92
V 68.0	6.50	5.92	5.97	5.98	4.57	5.78	5.10	4.81	3.81	2.81	2.33	2.00	1.76
V 69.0	4.94	4.76	4.51	4.21	4.11	3.99	3.22	3.46	2.77	2.35	2.08	1.84	1.61
V 70.0	4.27	4.16	4.04	3.69	3.62	3.14	2.91	2.70	2.35	2.16	1.90	1.69	1.47
V 71.0	3.77	3.73	3.38	3.27	3.04	2.86	2.63	2.39	2.17	1.96	1.72	1.53	1.34
V 72.0	3.51	3.26	3.03	2.88	2.72	2.54	2.35	2.15	1.98	1.75	1.56	1.39	1.22
V 73.0	2.77	2.62	2.56	2.43	2.35	2.19	2.07	1.91	1.75	1.57	1.41	1.26	1.11
V 74.0	2.38	2.29	2.23	2.17	2.06	1.96	1.84	1.71	1.56	1.41	1.28	1.14	1.01
V 75.0	2.21	2.15	2.07	1.98	1.89	1.78	1.66	1.54	1.40	1.28	1.15	1.03	0.91
V 76.0	2.03	1.96	1.89	1.80	1.70	1.61	1.50	1.38	1.27	1.15	1.04	0.93	0.83
V 77.0	1.79	1.74	1.67	1.60	1.52	1.44	1.35	1.24	1.14	1.04	0.93	0.84	0.75
V 78.0	1.57	1.53	1.48	1.42	1.36	1.29	1.20	1.12	1.02	0.93	0.85	0.76	0.68
V 79.0	1.40	1.37	1.33	1.28	1.23	1.16	1.09	1.01	0.93	0.85	0.76	0.69	0.61
V 80.0	1.27	1.24	1.20	1.16	1.11	1.06	0.99	0.92	0.84	0.77	0.69	0.62	0.55
V 81.0	1.14	1.12	1.08	1.05	1.01	0.96	0.90	0.84	0.77	0.69	0.62	0.55	0.50
V 82.0	1.03	1.01	0.98	0.95	0.92	0.87	0.82	0.76	0.69	0.62	0.56	0.49	0.44
V 83.0	0.95	0.93	0.90	0.87	0.84	0.79	0.74	0.68	0.62	0.55	0.49	0.43	0.38
V 84.0	0.89	0.86	0.83	0.79	0.75	0.70	0.66	0.59	0.53	0.47	0.42	0.37	0.32
V 85.0	0.78	0.75	0.72	0.68	0.63	0.58	0.53	0.48	0.44	0.38	0.33	0.29	0.25
V 86.0	0.61	0.58	0.54	0.51	0.47	0.43	0.39	0.35	0.31	0.27	0.24	0.21	0.18
V 87.0	0.42	0.39	0.35	0.32	0.29	0.26	0.22	0.20	0.18	0.17	0.15	0.13	0.12
V 88.0	0.24	0.22	0.20	0.18	0.15	0.14	0.12	0.10	0.09	0.08	0.07	0.06	0.06
V 89.0	0.11	0.09	0.08	0.07	0.06	0.05	0.04	0.04	0.03	0.03	0.03	0.03	0.03
V 90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Luminaire

Code 216131.115
Name START SM HPS-T 150W

Measur.

Code CL2303/11-01A
Name START SM ST 150W

Luminaire Flux	12309.27 lm	Luminaire Power	150.00 W	Efficacy	82.06 lm/W	Efficiency	70.34%
Lamps Flux	17500.00 lm	Maximum value	413.78 cd/klm	Position	H=0.00 V=0.00	VH	VH symm in H0

Luminous Intensity Table cd/klm Table 9/9

	H 65.00	H 67.50	H 70.00	H 72.50	H 75.00	H 77.50	H 80.00	H 82.50	H 85.00	H 87.50	H 90.00
V 56.0	4.45	3.24	2.43	1.81	1.32	0.91	0.60	0.35	0.15	0.04	0.00
V 57.0	4.02	2.97	2.29	1.72	1.25	0.87	0.58	0.33	0.15	0.04	0.00
V 58.0	3.60	2.77	2.14	1.62	1.19	0.84	0.56	0.32	0.15	0.04	0.00
V 59.0	3.28	2.58	2.00	1.53	1.13	0.80	0.53	0.31	0.15	0.04	0.00
V 60.0	2.95	2.38	1.87	1.45	1.08	0.77	0.51	0.30	0.14	0.04	0.00
V 61.0	2.69	2.21	1.75	1.37	1.02	0.73	0.49	0.29	0.14	0.04	0.00
V 62.0	2.49	2.05	1.64	1.29	0.97	0.70	0.47	0.28	0.14	0.04	0.00
V 63.0	2.30	1.88	1.53	1.21	0.92	0.66	0.45	0.27	0.13	0.04	0.00
V 64.0	2.12	1.75	1.44	1.15	0.87	0.63	0.43	0.26	0.13	0.04	0.00
V 65.0	1.95	1.63	1.34	1.08	0.82	0.60	0.40	0.25	0.13	0.04	0.00
V 66.0	1.78	1.51	1.24	1.01	0.78	0.56	0.38	0.24	0.12	0.04	0.00
V 67.0	1.65	1.40	1.17	0.95	0.73	0.53	0.36	0.23	0.12	0.03	0.00
V 68.0	1.52	1.29	1.09	0.89	0.69	0.51	0.35	0.22	0.12	0.03	0.00
V 69.0	1.39	1.19	1.01	0.83	0.65	0.48	0.33	0.21	0.11	0.03	0.00
V 70.0	1.28	1.10	0.94	0.77	0.60	0.45	0.31	0.20	0.11	0.03	0.00
V 71.0	1.16	1.01	0.87	0.72	0.56	0.42	0.29	0.19	0.11	0.03	0.00
V 72.0	1.07	0.93	0.80	0.67	0.53	0.39	0.27	0.18	0.10	0.03	0.00
V 73.0	0.97	0.86	0.74	0.61	0.49	0.36	0.26	0.17	0.10	0.03	0.00
V 74.0	0.89	0.78	0.68	0.57	0.45	0.34	0.24	0.16	0.10	0.03	0.00
V 75.0	0.81	0.72	0.62	0.53	0.42	0.31	0.22	0.15	0.09	0.02	0.00
V 76.0	0.74	0.66	0.57	0.48	0.39	0.29	0.21	0.14	0.09	0.02	0.00
V 77.0	0.68	0.60	0.52	0.44	0.35	0.26	0.19	0.13	0.09	0.02	0.00
V 78.0	0.61	0.54	0.47	0.40	0.32	0.24	0.17	0.13	0.08	0.02	0.00
V 79.0	0.55	0.49	0.43	0.36	0.29	0.22	0.16	0.12	0.08	0.02	0.00
V 80.0	0.50	0.44	0.39	0.33	0.26	0.19	0.14	0.11	0.07	0.02	0.00
V 81.0	0.44	0.40	0.35	0.29	0.23	0.17	0.13	0.10	0.07	0.02	0.00
V 82.0	0.39	0.35	0.30	0.25	0.19	0.15	0.12	0.09	0.06	0.01	0.00
V 83.0	0.34	0.30	0.25	0.21	0.17	0.13	0.10	0.08	0.05	0.01	0.00
V 84.0	0.28	0.24	0.20	0.17	0.14	0.11	0.09	0.07	0.04	0.01	0.00
V 85.0	0.22	0.19	0.16	0.14	0.12	0.09	0.07	0.05	0.04	0.01	0.00
V 86.0	0.16	0.14	0.12	0.11	0.09	0.07	0.06	0.04	0.03	0.01	0.00
V 87.0	0.10	0.09	0.09	0.08	0.07	0.06	0.04	0.03	0.02	0.01	0.00
V 88.0	0.06	0.06	0.06	0.05	0.04	0.04	0.03	0.02	0.01	0.00	0.00
V 89.0	0.03	0.03	0.03	0.03	0.02	0.02	0.01	0.01	0.01	0.00	0.00
V 90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00