

Luminaire

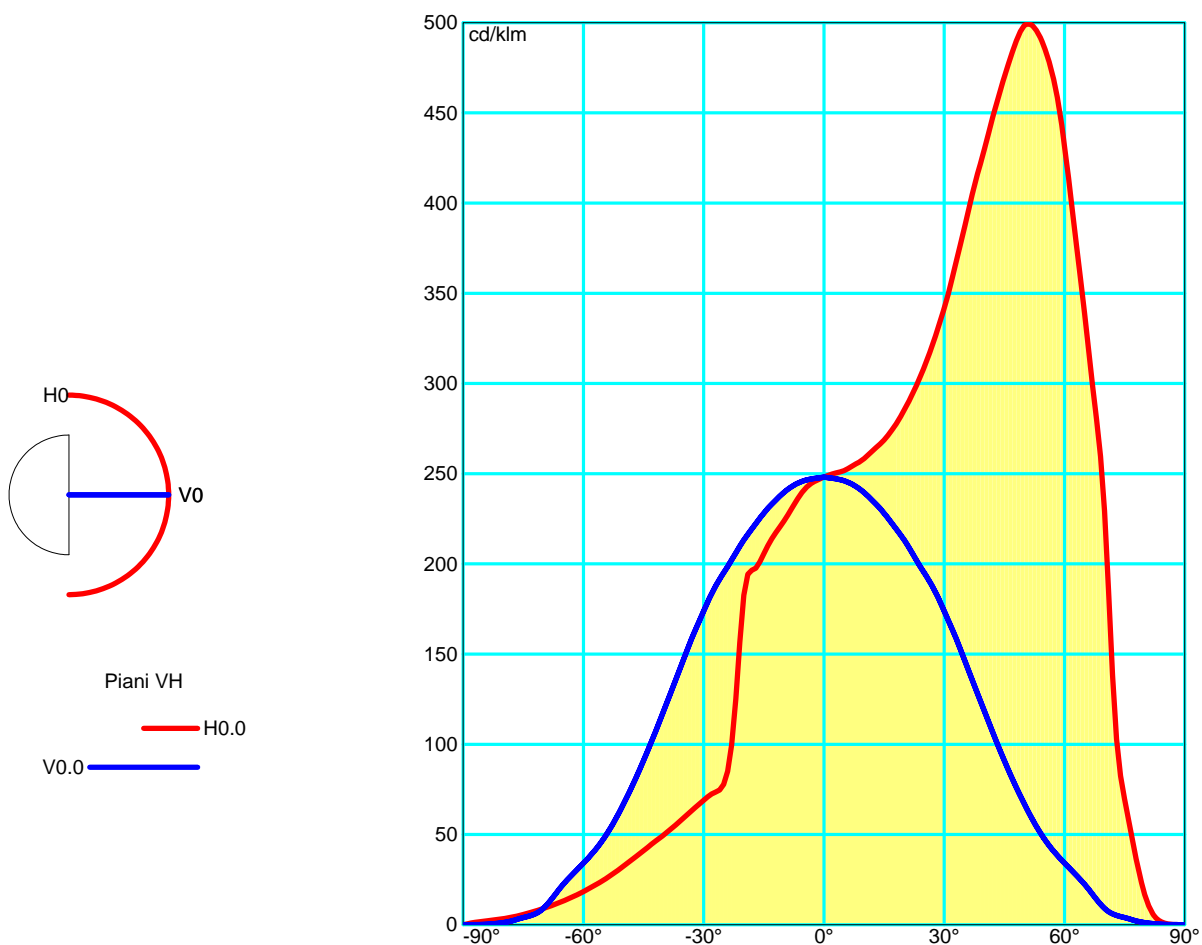
Code 217131.115
Name START AS HPS-T 150W

Measur.

Code CL2303/11-03A
Name START AS ST 150W

Luminaire Flux	11663.40 lm	Luminaire Power	150.00 W	Efficacy	77.76 lm/W	Efficiency	66.65%
Lamps Flux	17500.00 lm	Maximum value	499.56 cd/klm	Position	H=0.00 V=51.00	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 217131.115
Name START AS HPS-T 150W

Measurerm.

Code CL2303/11-03A
Name START AS ST 150W

Luminaire Flux	11663.40 lm		Luminaire Power		150.00 W		Efficacy		77.76 lm/W		Efficiency		66.65%	
Lamps Flux	17500.00 lm		Maximum value		499.56 cd/klm		Position		H=0.00 V=51.00		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	0.48	0.48	0.48	0.47	0.45	0.43	0.41	0.39	0.37	0.34	0.30	0.26	0.23	
V-88.0	0.93	0.94	0.94	0.92	0.89	0.85	0.82	0.79	0.74	0.68	0.62	0.56	0.50	
V-87.0	1.35	1.35	1.35	1.32	1.29	1.25	1.21	1.17	1.11	1.05	0.97	0.90	0.83	
V-86.0	1.70	1.70	1.70	1.68	1.65	1.61	1.56	1.52	1.46	1.40	1.32	1.25	1.17	
V-85.0	1.99	1.99	1.98	1.96	1.93	1.90	1.85	1.80	1.75	1.68	1.62	1.54	1.47	
V-84.0	2.22	2.21	2.20	2.18	2.15	2.11	2.07	2.02	1.96	1.89	1.82	1.75	1.67	
V-83.0	2.42	2.41	2.40	2.38	2.35	2.31	2.26	2.20	2.13	2.06	1.98	1.89	1.81	
V-82.0	2.66	2.65	2.64	2.61	2.58	2.53	2.47	2.41	2.33	2.25	2.15	2.05	1.96	
V-81.0	2.96	2.95	2.93	2.91	2.86	2.81	2.74	2.67	2.58	2.48	2.37	2.26	2.16	
V-80.0	3.31	3.31	3.29	3.25	3.20	3.13	3.05	2.97	2.87	2.76	2.64	2.51	2.38	
V-79.0	3.72	3.71	3.69	3.64	3.58	3.50	3.40	3.29	3.18	3.05	2.91	2.77	2.63	
V-78.0	4.17	4.16	4.13	4.07	3.99	3.89	3.78	3.65	3.51	3.36	3.21	3.05	2.89	
V-77.0	4.65	4.64	4.60	4.53	4.44	4.32	4.19	4.04	3.88	3.70	3.53	3.36	3.17	
V-76.0	5.16	5.15	5.11	5.03	4.91	4.78	4.63	4.45	4.27	4.08	3.88	3.68	3.48	
V-75.0	5.71	5.70	5.65	5.56	5.43	5.27	5.10	4.90	4.69	4.47	4.25	4.03	3.81	
V-74.0	6.31	6.29	6.24	6.13	5.98	5.80	5.60	5.37	5.13	4.89	4.64	4.39	4.14	
V-73.0	6.95	6.92	6.86	6.74	6.57	6.36	6.13	5.87	5.60	5.34	5.06	4.77	4.50	
V-72.0	7.60	7.57	7.50	7.37	7.18	6.95	6.69	6.40	6.10	5.81	5.50	5.19	4.89	
V-71.0	8.28	8.24	8.17	8.03	7.83	7.57	7.28	6.96	6.64	6.31	5.97	5.64	5.30	
V-70.0	8.99	8.95	8.87	8.72	8.51	8.23	7.90	7.55	7.19	6.83	6.46	6.09	5.72	
V-69.0	9.75	9.72	9.62	9.46	9.22	8.92	8.56	8.17	7.78	7.37	6.95	6.55	6.15	
V-68.0	10.56	10.52	10.42	10.24	9.98	9.65	9.26	8.83	8.39	7.93	7.48	7.03	6.58	
V-67.0	11.39	11.34	11.23	11.04	10.77	10.41	9.99	9.52	9.04	8.54	8.05	7.56	7.07	
V-66.0	12.26	12.19	12.08	11.88	11.59	11.20	10.75	10.25	9.72	9.18	8.65	8.12	7.58	
V-65.0	13.16	13.10	12.97	12.76	12.45	12.03	11.54	11.01	10.43	9.84	9.26	8.69	8.09	
V-64.0	14.13	14.07	13.92	13.68	13.34	12.90	12.37	11.79	11.17	10.51	9.88	9.25	8.61	
V-63.0	15.13	15.08	14.92	14.64	14.27	13.80	13.23	12.60	11.93	11.23	10.53	9.84	9.14	
V-62.0	16.17	16.11	15.94	15.64	15.24	14.74	14.14	13.46	12.74	11.99	11.22	10.47	9.73	
V-61.0	17.24	17.16	16.99	16.68	16.25	15.71	15.08	14.36	13.59	12.79	11.96	11.15	10.37	
V-60.0	18.37	18.27	18.08	17.77	17.32	16.73	16.05	15.29	14.47	13.62	12.73	11.84	11.00	
V-59.0	19.57	19.46	19.24	18.90	18.43	17.81	17.06	16.23	15.36	14.45	13.51	12.54	11.60	
V-58.0	20.81	20.70	20.47	20.09	19.59	18.94	18.11	17.20	16.26	15.31	14.31	13.25	12.22	
V-57.0	22.07	21.96	21.72	21.33	20.80	20.10	19.21	18.22	17.22	16.22	15.17	14.04	12.91	
V-56.0	23.34	23.25	23.01	22.61	22.05	21.30	20.36	19.30	18.23	17.17	16.06	14.87	13.67	
V-55.0	24.70	24.61	24.37	23.95	23.34	22.54	21.54	20.42	19.28	18.13	16.96	15.70	14.44	
V-54.0	26.16	26.08	25.81	25.34	24.69	23.83	22.77	21.58	20.35	19.09	17.84	16.52	15.19	
V-53.0	27.68	27.60	27.30	26.76	26.06	25.17	24.04	22.77	21.46	20.10	18.74	17.37	15.96	
V-52.0	29.21	29.11	28.78	28.20	27.45	26.51	25.34	23.99	22.60	21.18	19.73	18.29	16.80	
V-51.0	30.74	30.62	30.27	29.66	28.86	27.88	26.67	25.25	23.77	22.29	20.79	19.27	17.69	
V-50.0	32.36	32.21	31.82	31.19	30.33	29.28	28.02	26.54	24.95	23.41	21.85	20.24	18.56	
V-49.0	34.10	33.90	33.48	32.81	31.88	30.75	29.41	27.86	26.17	24.52	22.90	21.22	19.42	
V-48.0	35.89	35.64	35.19	34.48	33.47	32.27	30.85	29.20	27.42	25.66	23.97	22.22	20.33	
V-47.0	37.61	37.35	36.88	36.14	35.08	33.82	32.32	30.56	28.72	26.85	25.09	23.28	21.33	
V-46.0	39.27	39.02	38.55	37.79	36.70	35.39	33.81	31.94	30.04	28.12	26.28	24.39	22.39	
V-45.0	40.97	40.73	40.26	39.48	38.36	36.97	35.29	33.32	31.35	29.40	27.46	25.49	23.41	
V-44.0	42.79	42.54	42.05	41.25	40.07	38.57	36.76	34.70	32.67	30.66	28.62	26.56	24.38	
V-43.0	44.64	44.37	43.87	43.04	41.80	40.17	38.25	36.10	34.01	31.96	29.81	27.66	25.35	
V-42.0	46.39	46.13	45.61	44.78	43.50	41.77	39.77	37.56	35.40	33.30	31.07	28.81	26.37	
V-41.0	48.05	47.82	47.30	46.46	45.19	43.37	41.31	39.08	36.84	34.67	32.40	30.03	27.46	
V-40.0	49.75	49.55	49.02	48.14	46.84	44.99	42.86	40.61	38.28	36.03	33.71	31.24	28.57	
V-39.0	51.56	51.38	50.81	49.86	48.52	46.67	44.45	42.12	39.70	37.34	34.95	32.43	29.67	
V-38.0	53.45	53.28	52.66	51.65	50.26	48.42	46.08	43.64	41.14	38.66	36.20	33.62	30.80	
V-37.0	55.30	55.14	54.53	53.52	52.07	50.17	47.76	45.22	42.65	40.07	37.52	34.87	32.01	
V-36.0	57.13	56.99	56.41	55.45	53.95	51.92	49.49	46.87	44.23	41.56	38.91	36.13	33.19	
V-35.0	59.05	58.88	58.30	57.38	55.84	53.71	51.26	48.58	45.84	43.08	40.32	37.35	34.27	
V-34.0	61.12	60.85	60.23	59.31	57.74	55.55	53.05	50.32	47.45	44.60	41.67	38.51	35.11	
V-33.0	63.23	62.87	62.19	61.24	59.62	57.40	54.85	52.09	49.07	46.13	43.00	39.65	35.99	
V-32.0	65.24	64.83	64.17	63.18	61.51	59.26	56.64	53.82	50.76	47.69	44.36	40.90	37.01	
V-31.0	67.12	66.76	66.18	65.13	63.43	61.14	58.44	55.56	52.50	49.32	45.84	42.24	38.23	
V-30.0	69.00	68.71	68.19	67.08	65.39	63.06	60.33	57.41	54.29	51.01	47.45	43.73	39.52	
V-29.0	70.89	70.67	70.08	68.97	67.28	64.96	62.25	59.27	55.98	52.61	48.95	45.14	40.67	
V-28.0	72.50	72.33	71.62	70.51	68.82	66.51	63.84	60.78	57.29	53.80	50.11	46.06	41.17	
V-27.0	73.51	73.36	72.67	71.47	69.83	67.51	64.84	61.73	58.04	54.62	50.66	46.51	42.04	
V-26.0	74.66	74.59	74.01	72.51	71.04	68.72	65.97	62.64	59.20	55.67	51.29	47.06	44.06	
V-25.0	77.80	77.78	77.34	75.59	74.18	71.86	68.93	65.68	62.15	58.40	53.62	49.74	44.69	
V-24.0	85.07	85.19	84.96	83.01	81.41	79.04	75.98	72.93	68.91	65.78	60.22	56.73	51.76	
V-23.0	99.76	100.04	99.97	97.90	95.60	93.13	90.78	87.34	83.11	80.35	75.04	71.23	66.18	
V-22.0	125.07	125.28	124.58	123.15	120.55	118.09	115.00	110.61	107.01	103.27	97.20	91.94	86.44	
V-21.0	156.66	156.14	154.55	153.48	151.01	147.75	143.85	139.89	134.47	130.18	122.63	114.18	107.97	
V-20.0	182.65	181.31	179.20	177.76	175.08	171.31	167.85	162.18	157.13	150.54	142.73	130.87	124.86	
V-19.0	194.25	192.99	191.49	189.31	186.48	182.79	178.70	171.37	164.07	158.11	153.67	136.57	132.54	
V-18.0	196.48	195.69	194.52	192.17	189.26	185.25	180.24	172.43	166.99	161.27	153.19	142.09	132.88	

Luminaire

Code 217131.115
Name START AS HPS-T 150W

Measurerm.

Code CL2303/11-03A
Name START AS ST 150W

Luminaire Flux	11663.40 lm			Luminaire Power		150.00 W		Efficacy		77.76 lm/W		Efficiency		66.65%	
Lamps Flux	17500.00 lm			Maximum value		499.56 cd/klm		Position		H=0.00 V=51.00		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	0.00	0.00
V-89.0	0.20	0.17	0.15	0.13	0.11	0.09	0.07	0.05	0.04	0.03	0.03	0.03	0.03	0.02	0.02
V-88.0	0.45	0.40	0.35	0.31	0.27	0.22	0.18	0.14	0.11	0.08	0.06	0.05	0.05	0.05	0.05
V-87.0	0.76	0.69	0.62	0.55	0.48	0.41	0.34	0.29	0.25	0.21	0.17	0.13	0.10	0.10	0.10
V-86.0	1.10	1.02	0.94	0.85	0.77	0.68	0.60	0.51	0.43	0.35	0.28	0.21	0.16	0.16	0.16
V-85.0	1.40	1.32	1.24	1.13	1.02	0.92	0.82	0.72	0.63	0.52	0.41	0.32	0.24	0.24	0.24
V-84.0	1.60	1.51	1.41	1.32	1.22	1.12	1.01	0.89	0.76	0.65	0.53	0.43	0.33	0.33	0.33
V-83.0	1.72	1.63	1.55	1.46	1.36	1.25	1.13	1.01	0.88	0.76	0.64	0.52	0.41	0.41	0.41
V-82.0	1.86	1.77	1.68	1.59	1.49	1.38	1.26	1.12	0.99	0.86	0.73	0.61	0.49	0.49	0.49
V-81.0	2.05	1.94	1.84	1.73	1.63	1.52	1.38	1.24	1.10	0.96	0.82	0.69	0.56	0.56	0.56
V-80.0	2.26	2.14	2.02	1.90	1.79	1.66	1.52	1.37	1.21	1.06	0.91	0.76	0.63	0.63	0.63
V-79.0	2.49	2.35	2.21	2.08	1.95	1.82	1.67	1.50	1.34	1.17	1.01	0.85	0.70	0.70	0.70
V-78.0	2.73	2.57	2.42	2.27	2.13	1.98	1.82	1.65	1.47	1.29	1.11	0.94	0.78	0.78	0.78
V-77.0	2.99	2.82	2.65	2.48	2.33	2.16	1.99	1.80	1.60	1.41	1.22	1.04	0.86	0.86	0.86
V-76.0	3.28	3.08	2.89	2.71	2.53	2.35	2.16	1.96	1.75	1.54	1.34	1.13	0.94	0.94	0.94
V-75.0	3.58	3.36	3.15	2.95	2.75	2.56	2.35	2.13	1.90	1.68	1.45	1.24	1.03	1.03	1.03
V-74.0	3.90	3.65	3.42	3.19	2.97	2.76	2.54	2.31	2.06	1.82	1.58	1.34	1.12	1.12	1.12
V-73.0	4.23	3.96	3.71	3.45	3.21	2.97	2.74	2.49	2.23	1.97	1.71	1.46	1.22	1.22	1.22
V-72.0	4.58	4.29	4.01	3.74	3.46	3.21	2.95	2.69	2.40	2.12	1.84	1.58	1.32	1.32	1.32
V-71.0	4.97	4.65	4.34	4.03	3.74	3.45	3.17	2.89	2.59	2.28	1.98	1.70	1.42	1.42	1.42
V-70.0	5.36	5.01	4.67	4.34	4.01	3.70	3.39	3.09	2.78	2.45	2.13	1.82	1.53	1.53	1.53
V-69.0	5.76	5.36	4.99	4.64	4.29	3.95	3.61	3.30	2.97	2.63	2.28	1.95	1.64	1.64	1.64
V-68.0	6.16	5.73	5.32	4.94	4.57	4.21	3.85	3.51	3.16	2.80	2.44	2.09	1.75	1.75	1.75
V-67.0	6.59	6.13	5.67	5.27	4.88	4.49	4.10	3.73	3.36	2.98	2.60	2.23	1.87	1.87	1.87
V-66.0	7.05	6.56	6.07	5.62	5.20	4.78	4.37	3.95	3.56	3.17	2.77	2.37	1.99	1.99	1.99
V-65.0	7.52	6.98	6.47	5.98	5.52	5.07	4.63	4.19	3.77	3.35	2.94	2.52	2.12	2.12	2.12
V-64.0	7.98	7.40	6.86	6.33	5.83	5.35	4.89	4.43	3.98	3.54	3.10	2.67	2.24	2.24	2.24
V-63.0	8.47	7.84	7.25	6.69	6.15	5.64	5.14	4.66	4.18	3.72	3.26	2.81	2.37	2.37	2.37
V-62.0	9.01	8.33	7.68	7.07	6.49	5.94	5.41	4.91	4.40	3.91	3.43	2.96	2.50	2.50	2.50
V-61.0	9.58	8.84	8.14	7.48	6.84	6.26	5.69	5.16	4.63	4.10	3.59	3.10	2.62	2.62	2.62
V-60.0	10.15	9.34	8.59	7.88	7.21	6.58	5.98	5.41	4.86	4.31	3.76	3.24	2.75	2.75	2.75
V-59.0	10.69	9.81	9.03	8.27	7.57	6.90	6.27	5.66	5.09	4.52	3.94	3.39	2.88	2.88	2.88
V-58.0	11.25	10.29	9.46	8.67	7.94	7.21	6.56	5.91	5.31	4.73	4.12	3.54	3.01	3.01	3.01
V-57.0	11.87	10.86	9.95	9.11	8.33	7.57	6.85	6.18	5.54	4.93	4.30	3.70	3.15	3.15	3.15
V-56.0	12.55	11.48	10.48	9.59	8.74	7.93	7.16	6.45	5.76	5.13	4.49	3.86	3.29	3.29	3.29
V-55.0	13.24	12.13	11.03	10.08	9.15	8.31	7.47	6.73	6.00	5.33	4.68	4.02	3.43	3.43	3.43
V-54.0	13.91	12.73	11.59	10.56	9.58	8.68	7.80	7.01	6.24	5.54	4.86	4.19	3.58	3.58	3.58
V-53.0	14.60	13.34	12.14	11.04	10.01	9.06	8.14	7.30	6.50	5.75	5.04	4.36	3.72	3.72	3.72
V-52.0	15.35	13.98	12.72	11.54	10.45	9.43	8.49	7.59	6.75	5.96	5.23	4.53	3.87	3.87	3.87
V-51.0	16.16	14.65	13.33	12.07	10.93	9.83	8.85	7.90	7.02	6.18	5.43	4.71	4.02	4.02	4.02
V-50.0	16.95	15.35	13.93	12.62	11.41	10.24	9.20	8.22	7.27	6.39	5.62	4.88	4.17	4.17	4.17
V-49.0	17.70	16.03	14.53	13.16	11.90	10.68	9.57	8.54	7.54	6.61	5.82	5.06	4.32	4.32	4.32
V-48.0	18.49	16.75	15.13	13.72	12.38	11.12	9.93	8.86	7.80	6.83	6.02	5.24	4.47	4.47	4.47
V-47.0	19.33	17.53	15.79	14.31	12.87	11.57	10.31	9.17	8.06	7.05	6.23	5.42	4.63	4.63	4.63
V-46.0	20.24	18.36	16.48	14.93	13.38	12.02	10.68	9.49	8.31	7.32	6.44	5.61	4.79	4.79	4.79
V-45.0	21.16	19.14	17.18	15.54	13.92	12.47	11.09	9.79	8.57	7.59	6.68	5.80	4.95	4.95	4.95
V-44.0	22.05	19.88	17.88	16.13	14.47	12.89	11.48	10.11	8.83	7.83	6.92	5.99	5.10	5.10	5.10
V-43.0	22.96	20.64	18.58	16.71	15.04	13.31	11.87	10.42	9.23	8.06	7.16	6.20	5.25	5.25	5.25
V-42.0	23.91	21.47	19.31	17.31	15.59	13.73	12.25	10.75	9.53	8.31	7.28	6.39	5.40	5.40	5.40
V-41.0	24.88	22.34	20.09	17.94	16.14	14.16	12.65	11.09	9.77	8.62	7.50	6.57	5.56	5.56	5.56
V-40.0	25.86	23.22	20.85	18.59	16.67	14.61	13.10	11.50	10.00	8.95	7.73	6.73	5.73	5.73	5.73
V-39.0	26.83	24.07	21.56	19.23	17.17	15.08	13.50	11.95	10.31	9.14	7.95	6.85	5.90	5.90	5.90
V-38.0	27.86	24.93	22.23	19.84	17.65	15.76	13.98	12.34	10.67	9.42	8.18	7.06	6.06	6.06	6.06
V-37.0	28.90	25.84	22.89	20.46	18.12	16.26	14.40	12.71	11.02	9.69	8.41	7.27	6.23	6.23	6.23
V-36.0	29.87	26.73	23.56	21.11	18.76	16.76	14.78	13.09	11.37	9.97	8.63	7.47	6.40	6.40	6.40
V-35.0	30.72	27.50	24.27	21.85	19.28	17.31	15.23	13.68	11.62	10.25	8.89	7.68	6.57	6.57	6.57
V-34.0	31.51	28.19	25.03	22.68	19.98	17.82	15.66	13.89	12.09	10.52	9.12	7.88	6.74	6.74	6.74
V-33.0	32.31	28.97	25.92	23.57	20.56	18.39	16.12	14.19	12.44	10.79	9.37	8.08	6.91	6.91	6.91
V-32.0	33.37	29.90	26.70	24.48	21.06	18.88	16.57	14.54	12.79	11.13	9.63	8.28	7.08	7.08	7.08
V-31.0	34.48	31.01	27.76	25.29	21.40	19.42	17.21	14.97	13.15	11.38	9.90	8.48	7.24	7.24	7.24
V-30.0	35.53	32.05	28.66	25.59	22.39	19.97	17.55	15.44	13.49	11.84	10.17	8.68	7.96	7.96	7.96
V-29.0	36.81	32.57	29.13	26.15	23.13	20.23	18.31	15.94	13.80	12.53	10.47	8.87	8.91	8.91	8.91
V-28.0	37.83	32.80	29.92	27.21	23.91	20.71	19.53	16.47	14.48	13.92	11.05	9.08	10.09	10.09	10.09
V-27.0	38.33	34.59	30.77	28.78	24.67	22.41	21.11	17.02	16.62	15.87	10.83	9.96	11.44	11.44	11.44
V-26.0	38.90	36.57	31.47	29.54	25.27	25.81	22.68	16.90	19.66	18.35	11.63	11.47	12.96	12.96	12.96
V-25.0	41.36	35.80	35.41	31.34	27.05	30.79	24.61	19.89	23.41	21.29	13.50	13.26	14.61	14.61	14.61
V-24.0	49.50	43.68	44.18	38.26	34.92	37.26	29.43	24.04	27.63	24.54	16.13	15.30	16.35	16.35	16.35
V-23.0	62.76	56.36	56.13	47.51	45.06	44.86	35.34	29.78	32.08	27.92	18.96	17.51	18.07	18.07	18.07
V-22.0	79.96	72.97	70.25	58.44	56.28	52.86	41.55	35.73	36.39	31.07	21.82	19.81	19.75	19.75	19.75
V-21.0	97.10	89.69	83.88	69.34	67.05	60.24	47.46	41.36	40.33	33.80	24.67	22.13	21.31	21.31	21.31
V-20.0	110.50	102.33	93.41	78.51	76.03	63.84	52.55	46.42	42.79	36.06	27.34	24.37	22.69	22.69	22.69
V-19.0	115.00	109.34	97.34	85.24	79.72	66.03	56.50	50.45	43.65	35.96	29.63	26.43	23.23	23.23	23.23
V-18.0	119.91	110.64	99.05	89.31	80.29	68.20	59.24	52.03	44.48	36.95	31.50	28.15	23.56	23.56	23.56

Luminaire

Code 217131.115
Name START AS HPS-T 150W

Measur.

Code CL2303/11-03A
Name START AS ST 150W

Luminaire Flux	11663.40 lm	Luminaire Power	150.00 W	Efficacy	77.76 lm/W	Efficiency	66.65%
Lamps Flux	17500.00 lm	Maximum value	499.56 cd/klm	Position	H=0.00 V=51.00	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	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00
V-88.0	0.05	0.04	0.03	0.03	0.02	0.02	0.01	0.01	0.01	0.00	0.00
V-87.0	0.08	0.06	0.05	0.04	0.03	0.02	0.02	0.01	0.01	0.00	0.00
V-86.0	0.12	0.09	0.07	0.06	0.05	0.03	0.02	0.02	0.01	0.00	0.00
V-85.0	0.17	0.12	0.09	0.07	0.06	0.04	0.03	0.02	0.01	0.00	0.00
V-84.0	0.24	0.17	0.12	0.09	0.07	0.05	0.04	0.03	0.02	0.01	0.00
V-83.0	0.32	0.23	0.16	0.11	0.08	0.06	0.04	0.03	0.02	0.01	0.00
V-82.0	0.38	0.28	0.20	0.14	0.09	0.07	0.05	0.03	0.02	0.01	0.00
V-81.0	0.43	0.33	0.24	0.17	0.12	0.07	0.05	0.04	0.02	0.01	0.00
V-80.0	0.49	0.38	0.28	0.20	0.14	0.09	0.06	0.04	0.03	0.01	0.00
V-79.0	0.56	0.43	0.32	0.23	0.16	0.11	0.06	0.04	0.03	0.01	0.00
V-78.0	0.62	0.48	0.36	0.26	0.18	0.12	0.07	0.05	0.03	0.01	0.00
V-77.0	0.69	0.53	0.40	0.29	0.21	0.14	0.08	0.05	0.03	0.01	0.00
V-76.0	0.76	0.59	0.44	0.33	0.23	0.15	0.10	0.06	0.03	0.01	0.00
V-75.0	0.83	0.65	0.49	0.36	0.26	0.17	0.11	0.06	0.04	0.02	0.00
V-74.0	0.91	0.71	0.54	0.39	0.28	0.19	0.12	0.06	0.04	0.02	0.00
V-73.0	0.99	0.78	0.59	0.43	0.31	0.21	0.13	0.07	0.04	0.02	0.00
V-72.0	1.08	0.85	0.64	0.47	0.33	0.23	0.15	0.08	0.04	0.02	0.00
V-71.0	1.16	0.92	0.70	0.51	0.36	0.24	0.16	0.09	0.04	0.02	0.00
V-70.0	1.26	1.00	0.76	0.55	0.39	0.26	0.17	0.10	0.04	0.02	0.00
V-69.0	1.35	1.07	0.81	0.59	0.42	0.28	0.18	0.11	0.04	0.02	0.00
V-68.0	1.45	1.15	0.88	0.64	0.45	0.30	0.20	0.12	0.05	0.02	0.00
V-67.0	1.55	1.23	0.94	0.68	0.48	0.32	0.21	0.12	0.05	0.02	0.00
V-66.0	1.65	1.32	1.00	0.73	0.51	0.34	0.22	0.13	0.05	0.02	0.00
V-65.0	1.75	1.40	1.07	0.78	0.54	0.37	0.24	0.14	0.05	0.02	0.00
V-64.0	1.85	1.49	1.14	0.83	0.57	0.39	0.25	0.15	0.06	0.02	0.00
V-63.0	1.95	1.58	1.20	0.88	0.60	0.41	0.27	0.16	0.06	0.02	0.00
V-62.0	2.05	1.67	1.28	0.93	0.64	0.43	0.28	0.16	0.07	0.02	0.00
V-61.0	2.16	1.75	1.36	0.98	0.67	0.45	0.29	0.17	0.07	0.02	0.00
V-60.0	2.26	1.83	1.43	1.03	0.71	0.48	0.31	0.18	0.07	0.02	0.00
V-59.0	2.38	1.92	1.51	1.08	0.75	0.50	0.32	0.19	0.08	0.02	0.00
V-58.0	2.49	2.01	1.58	1.14	0.79	0.52	0.34	0.20	0.08	0.02	0.00
V-57.0	2.60	2.10	1.66	1.21	0.82	0.54	0.35	0.20	0.08	0.02	0.00
V-56.0	2.72	2.20	1.73	1.27	0.87	0.56	0.37	0.21	0.09	0.03	0.00
V-55.0	2.84	2.30	1.81	1.33	0.91	0.59	0.38	0.22	0.09	0.03	0.00
V-54.0	2.97	2.40	1.89	1.39	0.96	0.62	0.40	0.23	0.09	0.03	0.00
V-53.0	3.11	2.50	1.97	1.46	1.00	0.64	0.41	0.24	0.10	0.03	0.00
V-52.0	3.24	2.61	2.06	1.52	1.04	0.67	0.43	0.24	0.10	0.03	0.00
V-51.0	3.37	2.71	2.14	1.58	1.09	0.69	0.44	0.25	0.10	0.03	0.00
V-50.0	3.50	2.82	2.22	1.65	1.13	0.72	0.46	0.26	0.11	0.03	0.00
V-49.0	3.63	2.93	2.30	1.71	1.17	0.75	0.47	0.27	0.11	0.03	0.00
V-48.0	3.76	3.05	2.39	1.78	1.21	0.79	0.49	0.27	0.11	0.04	0.00
V-47.0	3.89	3.16	2.48	1.84	1.26	0.82	0.51	0.28	0.12	0.04	0.00
V-46.0	4.02	3.28	2.56	1.90	1.31	0.85	0.52	0.29	0.12	0.04	0.00
V-45.0	4.16	3.39	2.65	1.97	1.36	0.88	0.54	0.30	0.12	0.04	0.00
V-44.0	4.30	3.51	2.74	2.04	1.41	0.91	0.55	0.30	0.13	0.04	0.00
V-43.0	4.43	3.62	2.84	2.10	1.46	0.94	0.57	0.31	0.13	0.04	0.00
V-42.0	4.57	3.74	2.94	2.17	1.51	0.97	0.58	0.32	0.13	0.04	0.00
V-41.0	4.71	3.85	3.04	2.24	1.56	1.00	0.60	0.32	0.13	0.04	0.00
V-40.0	4.84	3.97	3.14	2.32	1.61	1.03	0.61	0.33	0.13	0.04	0.00
V-39.0	4.97	4.09	3.25	2.39	1.66	1.06	0.62	0.33	0.14	0.04	0.00
V-38.0	5.09	4.20	3.35	2.47	1.71	1.09	0.64	0.34	0.14	0.04	0.00
V-37.0	5.22	4.32	3.45	2.54	1.76	1.12	0.65	0.34	0.14	0.04	0.00
V-36.0	5.35	4.43	3.55	2.62	1.82	1.16	0.67	0.35	0.14	0.04	0.00
V-35.0	5.51	4.55	3.65	2.71	1.88	1.19	0.68	0.36	0.14	0.04	0.00
V-34.0	5.69	4.67	3.75	2.80	1.94	1.23	0.70	0.36	0.15	0.04	0.00
V-33.0	5.93	4.80	3.85	2.88	2.01	1.26	0.72	0.37	0.15	0.04	0.00
V-32.0	6.21	4.93	3.95	2.97	2.07	1.30	0.73	0.37	0.15	0.04	0.00
V-31.0	6.66	5.09	4.05	3.06	2.13	1.34	0.75	0.38	0.15	0.04	0.00
V-30.0	7.22	5.28	4.14	3.14	2.20	1.37	0.76	0.39	0.15	0.04	0.00
V-29.0	7.89	5.49	4.25	3.22	2.26	1.40	0.77	0.39	0.16	0.05	0.00
V-28.0	8.67	5.71	4.35	3.30	2.32	1.44	0.79	0.39	0.16	0.05	0.00
V-27.0	9.59	5.95	4.46	3.38	2.38	1.48	0.80	0.40	0.16	0.05	0.00
V-26.0	10.64	6.31	4.58	3.46	2.43	1.52	0.81	0.40	0.16	0.04	0.00
V-25.0	11.76	6.74	4.71	3.54	2.49	1.57	0.83	0.41	0.16	0.04	0.00
V-24.0	12.92	7.18	4.85	3.62	2.55	1.61	0.85	0.41	0.16	0.04	0.00
V-23.0	14.06	7.64	4.99	3.70	2.61	1.65	0.87	0.41	0.16	0.04	0.00
V-22.0	15.12	8.10	5.13	3.78	2.66	1.69	0.89	0.42	0.16	0.04	0.00
V-21.0	15.63	8.57	5.27	3.86	2.72	1.73	0.90	0.42	0.17	0.04	0.00
V-20.0	16.17	9.10	5.41	3.94	2.78	1.77	0.92	0.42	0.17	0.04	0.00
V-19.0	16.68	9.65	5.55	4.03	2.85	1.81	0.94	0.43	0.17	0.04	0.00
V-18.0	17.14	10.15	5.70	4.11	2.91	1.85	0.95	0.43	0.17	0.04	0.00

Luminaire

Code 217131.115
Name START AS HPS-T 150W

Measurerm.

Code CL2303/11-03A
Name START AS ST 150W

Luminaire Flux		11663.40 lm		Luminaire Power		150.00 W		Efficacy		77.76 lm/W		Efficiency		66.65%	
Lamps Flux		17500.00 lm		Maximum value		499.56 cd/klm		Position		H=0.00 V=51.00		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	197.60	197.22	195.89	193.67	190.40	185.97	181.33	175.39	169.59	162.67	154.15	145.18	134.22		
V-16.0	201.08	200.73	199.37	197.02	193.41	189.37	184.36	178.60	172.79	165.24	157.14	146.92	136.31		
V-15.0	205.64	205.26	203.84	201.19	197.52	193.37	188.29	182.27	176.24	168.64	160.20	149.33	138.76		
V-14.0	210.03	209.53	207.86	204.96	201.15	196.84	191.39	185.27	178.94	171.44	162.69	152.44	141.08		
V-13.0	213.95	213.21	211.21	208.14	204.30	199.77	193.98	187.76	181.18	173.78	164.97	154.92	143.32		
V-12.0	217.38	216.47	214.41	211.13	207.25	202.33	196.58	190.34	183.59	176.06	167.33	157.35	145.57		
V-11.0	220.48	219.57	217.82	214.39	210.18	205.05	199.51	193.26	186.44	178.65	170.11	159.93	148.02		
V-10.0	223.63	222.92	221.24	217.92	213.42	208.11	202.71	196.32	189.45	181.37	172.92	162.59	150.70		
V -9.0	227.11	226.68	224.93	221.77	216.99	211.63	206.01	199.32	192.22	184.11	175.46	165.15	153.49		
V -8.0	230.80	230.57	228.59	225.68	220.72	215.30	209.33	202.29	194.82	186.81	177.93	167.70	156.22		
V -7.0	234.47	234.23	232.06	229.09	224.28	218.75	212.47	205.28	197.66	189.50	180.48	170.40	158.75		
V -6.0	237.89	237.38	235.28	232.08	227.49	221.85	215.47	208.23	200.57	192.13	183.06	173.11	161.12		
V -5.0	240.83	240.13	238.26	234.91	230.55	224.65	218.17	211.03	203.20	194.56	185.46	175.47	163.29		
V -4.0	243.11	242.52	240.80	237.60	233.27	227.29	220.58	213.48	205.47	196.72	187.48	177.36	165.33		
V -3.0	244.82	244.50	243.03	240.18	235.59	229.60	222.78	215.59	207.52	198.66	189.25	179.22	167.40		
V -2.0	246.12	245.77	244.45	241.84	237.40	231.44	224.78	217.48	209.49	200.53	191.06	181.42	169.60		
V -1.0	247.16	246.58	245.41	242.79	238.67	232.92	226.62	219.22	211.50	202.40	193.02	183.78	171.81		
V 0.0	248.08	247.32	246.11	243.60	239.59	234.26	228.23	220.81	213.31	204.18	194.96	185.85	173.78		
V 1.0	248.98	248.19	246.81	244.05	240.41	235.42	229.57	222.27	214.67	205.73	196.72	186.98	175.36		
V 2.0	249.80	249.15	247.54	244.73	241.17	236.50	230.65	223.52	215.79	207.10	198.22	187.87	176.70		
V 3.0	250.42	249.93	248.30	245.48	241.90	237.37	231.51	224.58	216.89	208.36	199.45	189.04	178.02		
V 4.0	250.94	250.50	248.94	246.28	242.69	237.97	232.25	225.47	218.01	209.56	200.59	190.70	179.47		
V 5.0	251.66	251.23	249.79	247.34	243.62	238.67	233.16	226.44	219.18	210.79	201.82	192.43	180.94		
V 6.0	252.78	252.27	250.87	248.45	244.71	239.78	234.23	227.65	220.36	211.98	203.11	193.70	182.28		
V 7.0	254.14	253.50	252.06	249.65	245.98	241.06	235.34	228.88	221.38	213.07	204.31	194.55	183.45		
V 8.0	255.46	254.72	253.18	250.76	247.15	242.30	236.49	229.85	222.21	214.05	205.30	195.45	184.63		
V 9.0	256.76	255.98	254.29	251.84	248.27	243.46	237.55	230.68	223.05	214.99	206.31	196.70	185.89		
V 10.0	258.30	257.48	255.63	253.19	249.62	244.81	238.90	231.82	224.17	216.10	207.56	198.23	187.40		
V 11.0	260.25	259.36	257.51	254.97	251.31	246.50	240.63	233.58	225.82	217.62	209.05	199.86	189.13		
V 12.0	262.41	261.49	259.68	257.01	253.33	248.44	242.70	235.87	227.93	219.54	210.77	201.59	190.95		
V 13.0	264.46	263.56	261.95	259.23	255.44	250.52	244.99	238.33	230.29	221.79	212.73	203.47	192.71		
V 14.0	266.41	265.55	264.29	261.44	257.72	252.69	247.34	240.75	232.78	224.14	214.88	205.53	194.67		
V 15.0	268.59	267.80	266.72	264.00	260.34	255.27	249.92	243.26	235.27	226.43	217.15	207.72	196.79		
V 16.0	271.26	270.60	269.51	267.04	263.34	258.30	252.68	245.69	237.67	228.70	219.51	209.87	199.03		
V 17.0	274.32	273.76	272.63	270.25	266.68	261.62	255.57	248.24	240.14	231.04	221.92	212.17	201.42		
V 18.0	277.59	277.04	275.92	273.43	269.96	264.95	258.72	251.08	242.74	233.64	224.49	214.55	204.07		
V 19.0	281.09	280.41	279.35	276.74	273.12	268.14	262.05	254.20	245.62	236.52	227.28	217.10	207.01		
V 20.0	285.00	284.18	283.05	280.41	276.58	271.53	265.54	257.74	248.94	239.80	230.18	220.00	209.81		
V 21.0	289.45	288.52	287.17	284.56	280.64	275.43	269.58	261.82	252.91	243.32	233.39	223.10	212.59		
V 22.0	294.16	293.25	291.65	288.98	285.14	279.79	273.98	266.32	257.05	246.98	236.91	226.41	215.43		
V 23.0	298.78	298.07	296.31	293.49	289.70	284.39	278.46	270.61	261.15	250.78	240.72	229.99	218.52		
V 24.0	303.42	303.02	301.22	298.23	294.48	289.21	282.94	274.94	265.31	254.83	244.75	233.85	221.87		
V 25.0	308.62	308.43	306.68	303.58	299.87	294.55	288.00	279.69	270.00	259.30	249.00	237.87	225.34		
V 26.0	314.77	314.51	312.87	309.77	305.99	300.42	293.75	285.12	275.24	264.33	253.35	241.87	228.87		
V 27.0	321.39	320.94	319.48	316.46	312.51	306.61	299.93	291.05	280.81	269.48	257.73	245.67	232.40		
V 28.0	327.86	327.31	326.07	323.15	319.02	312.88	306.01	296.94	286.37	274.59	262.12	249.61	236.07		
V 29.0	334.23	333.73	332.64	329.92	325.53	319.25	312.06	302.88	291.93	279.73	266.73	253.76	239.86		
V 30.0	341.24	340.85	339.73	337.15	332.49	326.06	318.56	309.20	297.92	285.08	271.57	258.10	243.67		
V 31.0	349.44	349.13	347.72	345.18	340.29	333.62	325.80	316.14	304.46	290.78	276.62	262.48	247.47		
V 32.0	358.41	358.13	356.45	353.80	348.76	341.79	333.64	323.55	311.31	296.61	281.71	266.85	251.27		
V 33.0	367.53	367.20	365.41	362.62	357.44	350.18	341.64	330.96	317.88	302.36	286.82	271.16	255.14		
V 34.0	376.59	376.11	374.34	371.36	366.01	358.50	349.52	338.00	324.09	307.94	291.90	275.58	259.05		
V 35.0	385.81	385.13	383.25	379.95	374.36	366.51	357.04	344.83	330.18	313.33	296.89	279.93	262.77		
V 36.0	395.29	394.42	392.19	388.39	382.44	374.18	364.12	351.55	336.26	318.70	301.77	284.09	265.96		
V 37.0	404.67	403.64	401.07	396.84	390.53	381.84	371.24	358.39	342.52	324.40	306.67	288.07	269.10		
V 38.0	413.47	412.39	409.77	405.41											

Luminaire

Code 217131.115
Name START AS HPS-T 150W

Measurum.

Code CL2303/11-03A
Name START AS ST 150W

Luminaire Flux		11663.40 lm		Luminaire Power		150.00 W		Efficacy		77.76 lm/W		Efficiency		66.65%	
Lamps Flux		17500.00 lm		Maximum value		499.56 cd/klm		Position		H=0.00 V=51.00		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	122.92	112.68	101.78	90.99	81.04	70.02	61.03	52.67	45.19	37.99	32.92	28.70	23.83		
V-16.0	124.82	114.72	102.75	92.37	82.03	71.91	62.07	53.31	45.78	38.89	33.95	28.99	24.10		
V-15.0	126.51	116.65	103.35	93.75	83.35	72.45	62.72	54.31	46.25	39.65	34.31	29.26	24.36		
V-14.0	128.81	118.45	105.49	94.89	84.04	73.66	63.27	55.26	47.13	40.20	34.68	29.52	24.61		
V-13.0	131.59	120.14	107.75	96.52	85.52	74.73	64.12	55.17	46.88	40.64	35.03	29.78	24.84		
V-12.0	133.90	121.88	109.47	98.19	86.72	74.70	65.04	55.32	47.03	41.10	35.35	30.02	25.14		
V-11.0	136.12	123.72	111.39	99.78	87.40	75.93	65.98	55.92	47.87	41.55	35.64	30.24	25.59		
V-10.0	138.50	125.76	113.31	101.31	88.95	77.59	67.21	56.83	48.25	41.97	35.91	30.74	25.50		
V -9.0	140.99	127.99	115.29	102.84	90.54	79.18	68.50	57.92	49.16	42.38	36.16	30.68	25.48		
V -8.0	143.52	130.35	117.36	104.48	92.18	80.69	69.77	59.08	50.18	42.49	36.39	31.02	26.10		
V -7.0	146.00	132.75	119.51	106.23	93.84	82.13	71.00	60.26	51.21	43.17	36.78	31.10	25.75		
V -6.0	148.37	135.11	121.67	108.04	95.52	83.51	72.18	61.39	52.18	43.85	37.23	31.26	26.02		
V -5.0	150.56	137.41	123.78	109.87	97.16	84.83	73.28	62.43	53.04	44.51	37.72	31.65	26.35		
V -4.0	152.70	139.61	125.80	111.66	98.71	86.10	74.32	63.41	53.81	45.16	38.24	32.10	26.73		
V -3.0	154.89	141.68	127.70	113.41	100.19	87.31	75.33	64.33	54.52	45.78	38.77	32.59	27.14		
V -2.0	157.16	143.63	129.47	115.13	101.61	88.51	76.34	65.21	55.19	46.39	39.29	33.11	27.57		
V -1.0	159.35	145.47	131.15	116.84	102.99	89.71	77.36	66.05	55.82	46.96	39.81	33.62	28.00		
V 0.0	161.29	147.22	132.75	118.53	104.36	90.93	78.40	66.87	56.43	47.51	40.30	34.11	28.42		
V 1.0	162.69	148.89	134.31	120.21	105.77	92.18	79.55	67.66	57.10	48.04	40.79	34.56	28.80		
V 2.0	163.86	150.43	135.79	121.84	107.16	93.47	80.71	68.45	57.76	48.56	41.25	34.98	29.15		
V 3.0	164.95	151.76	137.18	123.37	108.53	94.78	81.89	69.24	58.42	49.08	41.70	35.38	29.47		
V 4.0	166.15	152.82	138.45	124.74	109.86	96.07	83.06	70.04	59.10	49.60	42.14	35.76	29.77		
V 5.0	167.48	153.70	139.65	125.92	111.14	97.35	84.19	70.87	59.78	50.15	42.58	36.13	30.06		
V 6.0	168.89	154.62	140.83	126.95	112.38	98.57	85.27	71.72	60.47	50.71	43.03	36.49	30.33		
V 7.0	170.37	155.79	142.06	127.91	113.59	99.76	86.29	72.59	61.17	51.31	43.51	36.85	30.61		
V 8.0	172.02	157.37	143.31	128.87	114.79	100.93	87.27	73.46	61.89	51.93	44.01	37.21	30.89		
V 9.0	173.82	159.23	144.66	129.86	115.97	102.08	88.23	74.33	62.65	52.58	44.55	37.57	31.18		
V 10.0	175.63	161.15	146.12	130.94	117.13	103.24	89.19	75.19	63.46	53.24	45.13	37.94	31.49		
V 11.0	177.19	163.00	147.71	132.16	118.30	104.45	90.18	76.05	64.29	53.91	45.72	38.32	31.83		
V 12.0	178.66	164.84	149.38	133.49	119.53	105.67	91.21	76.96	65.14	54.58	46.31	38.70	32.18		
V 13.0	180.28	166.77	151.09	134.93	120.86	106.90	92.25	78.01	66.03	55.28	46.89	39.08	32.56		
V 14.0	182.09	168.76	152.92	136.53	122.33	108.12	93.30	79.11	66.95	56.08	47.46	39.47	32.96		
V 15.0	184.02	170.81	154.88	138.39	123.90	109.32	94.35	80.21	67.89	56.89	48.01	39.92	33.37		
V 16.0	186.16	172.82	156.96	140.34	125.51	110.52	95.39	81.32	68.88	57.70	48.55	40.40	33.80		
V 17.0	188.50	174.87	159.14	142.34	127.05	111.70	96.43	82.41	69.85	58.47	49.11	40.90	34.22		
V 18.0	191.03	177.25	161.43	144.37	128.51	112.88	97.49	83.48	70.76	59.18	49.71	41.43	34.64		
V 19.0	193.81	179.83	163.73	146.38	130.00	114.09	98.70	84.50	71.59	59.83	50.35	41.95	34.97		
V 20.0	196.79	182.50	166.10	148.33	131.63	115.34	99.89	85.46	72.34	60.42	51.01	42.46	35.24		
V 21.0	199.83	185.20	168.52	150.29	133.48	116.63	101.06	86.36	73.03	60.93	51.70	42.98	35.48		
V 22.0	202.70	187.98	170.98	152.31	135.47	117.96	102.19	87.19	73.65	61.38	52.38	43.44	35.71		
V 23.0	205.56	190.90	173.52	154.46	137.40	119.37	103.31	87.93	74.22	61.97	53.04	43.83	35.93		
V 24.0	208.48	193.74	175.95	156.79	139.31	120.74	104.45	88.60	74.73	62.76	53.67	44.15	36.12		
V 25.0	211.52	196.49	178.39	159.07	141.25	122.11	105.55	89.32	75.23	63.58	54.24	44.43	36.24		
V 26.0	214.55	198.99	180.75	161.48	143.02	123.55	106.67	90.08	75.73	64.40	54.68	44.74	36.34		
V 27.0	217.52	201.63	183.21	163.93	144.85	125.02	107.85	90.93	76.34	65.14	54.97	45.05	36.43		
V 28.0	220.58	204.62	185.74	166.53	146.61	126.68	108.96	91.91	77.10	65.78	55.23	45.35	36.51		
V 29.0	224.03	207.86	188.36	169.22	148.31	128.41	110.15	92.88	77.88	66.35	55.46	45.68	36.45		
V 30.0	227.70	211.16	191.06	171.46	150.13	130.16	111.41	93.79	78.78	66.78	55.82	46.00	36.33		
V 31.0	231.49	214.11	193.64	173.62	151.92	131.91	112.62	94.59	79.74	67.11	56.28	46.26	36.20		
V 32.0	235.02	216.91	196.15	175.58	153.66	133.58	113.66	95.30	80.62	67.39	56.81	46.45	36.09		
V 33.0	238.34	219.50	198.47	177.65	155.14	135.09	114.40	96.12	81.26	67.82	57.34	46.51	35.93		
V 34.0	241.23	222.11	200.64	179.40	156.47	136.42	114.91	96.88	81.79	68.36	57.82	46.50	35.76		
V 35.0	244.03	224.61	203.01	181.01	157.68	137.25	115.53	97.69	82.24	68.93	58.27	46.45	35.58		
V 36.0	246.71	226.95	205.43	182.07	159.17	138.04	116.13	98.49	82.60	69.70	58.35	46.43	35.38		
V 37.0	249.64	229.50	208.02	183.48	160.93	138.51	116.96	99.13	82.89	70.40	58.20	46.55	35.02		
V 38.0	253.03	232.51	210.68	185.21	162.69	139.07	117.83	99.45	83.40	70.90	57.97	46.69	34.54		
V 39.0	256.99	235.86	213.46	187.39	164.52	139.64	118.49	99.62	83.86	71.06	57.85	46.68	33.96		
V 40.0	261.09	239.10	215.80	189.41	165.51	140.13	118.96	99.69	84.24	71.10	57.74	46.40	33.37		
V 41.0	264.55	241.74	217.83	191.07	166.40	140.51	119.12	99.60	84.56	70.81	57.64	46.06	32.73		
V 42.0	267.44	244.01	219.46	192.53	167.03	140.79	119.15	99.63	84.72	70.43	57.64	45.38	32.03		
V 43.0	269.92	246.29	220.98	194.11	167.37	141.05	119.02	99.47	84.56	70.13	57.53	44.43	31.32		
V 44.0	272.43	248.85	222.66	195.77	167.36	141.31	118.76	99.59	84.34	69.94	57.05	43.45	30.56		
V 45.0	274.81	251.16	224.28	197.01	167.33	141.56	118.32	99.64	83.84	69.68	56.34	42.54	29.72		
V 46.0	276.76	252.85	225.51	197.29	167.25	141.60	117.72	99.47	83.26	69.33	55.51	41.59	28.33		
V 47.0	278.14	253.85	226.38	197.31	167.42	141.51	117.55	99.21	82.79	68.94	54.46	40.55	26.72		
V 48.0	279.38	254													

Luminaire

Code 217131.115
Name START AS HPS-T 150W

Measur.

Code CL2303/11-03A
Name START AS ST 150W

Luminaire Flux	11663.40 lm	Luminaire Power	150.00 W	Efficacy	77.76 lm/W	Efficiency	66.65%
Lamps Flux	17500.00 lm	Maximum value	499.56 cd/klm	Position	H=0.00 V=51.00	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	17.57	10.60	5.92	4.19	2.98	1.89	0.97	0.43	0.17	0.04	0.00
V-16.0	17.95	11.01	6.16	4.27	3.04	1.92	0.98	0.44	0.17	0.04	0.00
V-15.0	18.27	11.36	6.40	4.35	3.10	1.96	1.00	0.44	0.17	0.05	0.00
V-14.0	19.09	11.68	6.63	4.43	3.17	2.00	1.01	0.44	0.17	0.05	0.00
V-13.0	19.15	11.97	6.86	4.51	3.23	2.04	1.02	0.44	0.17	0.05	0.00
V-12.0	19.19	12.24	7.07	4.60	3.29	2.07	1.04	0.45	0.17	0.05	0.00
V-11.0	19.26	12.54	7.28	4.69	3.35	2.10	1.05	0.45	0.17	0.05	0.00
V-10.0	19.38	12.82	7.48	4.77	3.42	2.14	1.06	0.45	0.17	0.05	0.00
V-9.0	19.55	13.10	7.67	4.86	3.48	2.17	1.07	0.46	0.17	0.05	0.00
V-8.0	19.78	13.38	7.85	4.94	3.54	2.20	1.08	0.46	0.17	0.05	0.00
V-7.0	20.05	13.66	8.02	5.02	3.60	2.22	1.09	0.46	0.18	0.05	0.00
V-6.0	20.37	13.94	8.19	5.10	3.65	2.25	1.10	0.46	0.18	0.05	0.00
V-5.0	20.71	14.21	8.34	5.18	3.71	2.28	1.11	0.47	0.18	0.05	0.00
V-4.0	21.07	14.48	8.49	5.26	3.76	2.30	1.11	0.47	0.18	0.05	0.00
V-3.0	21.43	14.74	8.63	5.34	3.82	2.32	1.12	0.47	0.18	0.05	0.00
V-2.0	21.80	14.99	8.77	5.42	3.87	2.34	1.13	0.47	0.18	0.05	0.00
V-1.0	22.14	15.23	8.91	5.50	3.92	2.36	1.13	0.48	0.18	0.05	0.00
V 0.0	22.46	15.44	9.04	5.55	3.96	2.36	1.14	0.47	0.18	0.05	0.00
V 1.0	22.74	15.65	9.17	5.68	4.00	2.38	1.14	0.48	0.18	0.05	0.00
V 2.0	22.98	15.83	9.30	5.77	4.04	2.40	1.15	0.49	0.18	0.05	0.00
V 3.0	23.19	15.99	9.43	5.86	4.08	2.40	1.15	0.49	0.18	0.06	0.00
V 4.0	23.39	16.14	9.55	5.95	4.11	2.41	1.15	0.49	0.19	0.06	0.00
V 5.0	23.57	16.27	9.68	6.03	4.14	2.41	1.16	0.49	0.19	0.06	0.00
V 6.0	23.74	16.40	9.80	6.12	4.17	2.41	1.16	0.50	0.19	0.06	0.00
V 7.0	23.90	16.52	9.91	6.20	4.19	2.41	1.16	0.50	0.19	0.06	0.00
V 8.0	24.07	16.63	10.02	6.27	4.21	2.41	1.16	0.50	0.19	0.06	0.00
V 9.0	24.25	16.74	10.13	6.33	4.23	2.40	1.16	0.50	0.19	0.06	0.00
V 10.0	24.45	16.85	10.23	6.39	4.24	2.39	1.16	0.51	0.19	0.06	0.00
V 11.0	24.65	16.96	10.32	6.44	4.25	2.38	1.15	0.51	0.19	0.06	0.00
V 12.0	24.88	17.08	10.40	6.47	4.25	2.36	1.15	0.51	0.20	0.06	0.00
V 13.0	25.11	17.22	10.47	6.50	4.25	2.34	1.15	0.51	0.20	0.06	0.00
V 14.0	25.35	17.36	10.53	6.53	4.25	2.32	1.14	0.51	0.20	0.06	0.00
V 15.0	25.58	17.50	10.57	6.57	4.24	2.29	1.14	0.51	0.20	0.06	0.00
V 16.0	25.80	17.62	10.60	6.60	4.22	2.26	1.13	0.51	0.20	0.06	0.00
V 17.0	26.02	17.73	10.61	6.62	4.20	2.24	1.12	0.52	0.20	0.06	0.00
V 18.0	26.22	17.82	10.62	6.63	4.18	2.22	1.11	0.52	0.20	0.06	0.00
V 19.0	26.40	17.89	10.66	6.64	4.15	2.19	1.10	0.52	0.20	0.06	0.00
V 20.0	26.55	17.93	10.68	6.64	4.11	2.17	1.09	0.52	0.20	0.06	0.00
V 21.0	26.67	17.93	10.67	6.62	4.07	2.14	1.08	0.52	0.20	0.06	0.00
V 22.0	26.75	17.90	10.63	6.60	4.03	2.10	1.07	0.52	0.21	0.06	0.00
V 23.0	26.78	17.83	10.55	6.57	3.99	2.07	1.06	0.52	0.21	0.06	0.00
V 24.0	26.76	17.72	10.44	6.53	3.94	2.03	1.04	0.51	0.21	0.06	0.00
V 25.0	26.69	17.57	10.29	6.49	3.89	1.99	1.02	0.51	0.21	0.06	0.00
V 26.0	26.58	17.39	10.17	6.44	3.83	1.95	1.01	0.51	0.21	0.06	0.00
V 27.0	26.42	17.19	10.06	6.37	3.76	1.90	1.00	0.51	0.21	0.07	0.00
V 28.0	26.25	16.96	9.94	6.29	3.69	1.84	0.99	0.51	0.21	0.07	0.00
V 29.0	26.11	16.69	9.80	6.20	3.61	1.81	0.98	0.50	0.21	0.07	0.00
V 30.0	25.94	16.36	9.63	6.10	3.53	1.78	0.97	0.50	0.21	0.07	0.00
V 31.0	25.76	15.98	9.43	6.00	3.44	1.75	0.95	0.50	0.21	0.07	0.00
V 32.0	25.55	15.60	9.29	5.89	3.35	1.72	0.94	0.49	0.21	0.07	0.00
V 33.0	25.20	15.29	9.17	5.77	3.26	1.69	0.92	0.48	0.21	0.07	0.00
V 34.0	24.81	14.95	9.02	5.64	3.17	1.65	0.90	0.48	0.20	0.07	0.00
V 35.0	24.39	14.58	8.86	5.50	3.07	1.61	0.89	0.47	0.20	0.07	0.00
V 36.0	23.94	14.18	8.68	5.35	2.96	1.58	0.87	0.46	0.20	0.07	0.00
V 37.0	23.40	13.81	8.50	5.19	2.86	1.54	0.85	0.46	0.20	0.07	0.00
V 38.0	22.84	13.41	8.33	5.03	2.75	1.50	0.83	0.45	0.20	0.07	0.00
V 39.0	22.26	12.95	8.14	4.85	2.64	1.45	0.82	0.45	0.20	0.07	0.00
V 40.0	21.67	12.44	7.94	4.66	2.53	1.41	0.80	0.44	0.20	0.07	0.00
V 41.0	21.00	12.12	7.72	4.46	2.41	1.36	0.78	0.43	0.20	0.07	0.00
V 42.0	20.22	11.81	7.47	4.27	2.28	1.31	0.77	0.43	0.20	0.07	0.00
V 43.0	19.31	11.45	7.20	4.11	2.18	1.26	0.75	0.42	0.20	0.07	0.00
V 44.0	18.55	11.05	6.91	3.93	2.11	1.22	0.73	0.41	0.19	0.07	0.00
V 45.0	17.71	10.72	6.61	3.76	2.04	1.18	0.71	0.40	0.19	0.07	0.00
V 46.0	16.79	10.35	6.31	3.57	1.96	1.13	0.69	0.39	0.19	0.07	0.00
V 47.0	16.06	9.92	5.99	3.39	1.87	1.09	0.67	0.38	0.19	0.07	0.00
V 48.0	15.33	9.50	5.65	3.22	1.79	1.04	0.65	0.37	0.19	0.07	0.00
V 49.0	14.54	9.08	5.32	3.04	1.71	1.00	0.63	0.37	0.18	0.07	0.00
V 50.0	13.83	8.63	5.06	2.86	1.63	0.95	0.61	0.36	0.18	0.07	0.00
V 51.0	13.12	8.17	4.79	2.69	1.55	0.91	0.59	0.35	0.18	0.07	0.00
V 52.0	12.36	7.72	4.51	2.55	1.46	0.88	0.57	0.34	0.18	0.06	0.00
V 53.0	11.73	7.25	4.24	2.40	1.38	0.84	0.55	0.34	0.17	0.06	0.00
V 54.0	11.10	6.75	3.99	2.24	1.31	0.81	0.53	0.33	0.17	0.06	0.00
V 55.0	10.43	6.34	3.73	2.09	1.25	0.77	0.51	0.32	0.17	0.06	0.00

Luminaire

Code 217131.115
Name START AS HPS-T 150W

Measur.

Code CL2303/11-03A
Name START AS ST 150W

Luminaire Flux		11663.40 lm		Luminaire Power		150.00 W		Efficacy		77.76 lm/W		Efficiency		66.65%	
Lamps Flux		17500.00 lm		Maximum value		499.56 cd/klm		Position		H=0.00 V=51.00		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	479.80	478.07	473.94	466.79	457.59	446.42	432.74	415.26	391.86	364.01	335.44	308.41	282.27		
V 57.0	471.46	469.80	465.64	458.36	448.81	437.42	424.43	407.27	383.35	355.55	327.98	301.11	274.50		
V 58.0	460.84	459.39	455.45	448.39	438.95	427.96	415.36	397.94	373.64	346.31	319.40	292.47	265.95		
V 59.0	447.67	446.55	443.00	436.45	427.71	417.53	404.98	387.13	363.01	336.14	309.60	282.82	256.73		
V 60.0	431.99	431.18	428.03	422.06	414.16	404.74	392.37	374.69	351.34	324.87	298.59	272.21	246.61		
V 61.0	414.07	413.47	410.65	405.16	397.88	388.87	377.15	360.72	338.36	312.35	286.31	260.40	235.33		
V 62.0	395.07	394.22	391.98	386.79	379.82	371.23	360.50	345.64	324.17	298.55	272.72	247.38	222.91		
V 63.0	376.32	375.48	373.33	368.23	361.52	353.62	343.87	329.85	308.88	283.53	257.96	233.30	209.73		
V 64.0	357.98	357.13	354.98	349.84	343.40	336.28	327.22	313.21	292.39	267.34	242.15	218.39	196.05		
V 65.0	339.07	338.21	336.04	330.82	324.63	318.02	309.16	295.15	274.50	249.92	225.43	202.82	181.68		
V 66.0	318.99	318.14	316.04	310.86	304.83	298.32	289.28	275.61	255.52	231.53	208.26	186.70	166.78		
V 67.0	298.90	298.06	296.10	291.12	285.25	278.84	269.71	256.10	236.71	213.63	191.53	171.00	152.06		
V 68.0	280.17	279.33	277.41	272.60	267.09	261.35	252.67	238.39	218.98	197.26	175.93	156.30	138.52		
V 69.0	259.59	258.93	256.93	252.40	247.43	242.66	234.56	220.42	200.34	179.96	160.27	140.99	125.59		
V 70.0	229.36	229.29	227.07	223.25	218.92	215.05	207.48	194.44	175.80	157.11	139.86	122.28	108.97		
V 71.0	185.27	185.43	183.88	181.08	178.45	175.59	168.68	156.85	142.75	127.62	112.55	99.05	88.16		
V 72.0	138.33	138.53	137.69	136.15	134.66	132.59	127.05	117.51	107.27	96.80	85.03	74.51	67.25		
V 73.0	102.91	102.94	102.36	101.33	100.19	98.60	94.73	87.79	79.34	72.17	64.03	55.54	50.60		
V 74.0	82.49	82.37	81.79	80.82	79.41	77.76	74.67	69.49	62.69	56.57	50.45	44.66	40.04		
V 75.0	69.70	69.47	68.89	67.73	66.29	64.56	61.76	57.46	52.09	46.47	41.36	37.06	33.31		
V 76.0	58.06	57.90	57.32	56.30	55.01	53.42	50.88	47.08	42.54	37.91	33.80	30.35	27.24		
V 77.0	46.53	46.36	45.87	45.05	43.97	42.55	40.36	37.21	33.52	29.79	26.63	23.99	21.38		
V 78.0	35.40	35.25	34.86	34.25	33.40	32.25	30.52	28.09	25.26	22.41	20.03	18.12	16.10		
V 79.0	25.22	25.10	24.82	24.37	23.77	22.97	21.77	20.08	18.08	16.02	14.24	12.97	11.59		
V 80.0	16.71	16.64	16.45	16.17	15.76	15.30	14.59	13.54	12.25	10.86	9.60	8.76	7.94		
V 81.0	10.44	10.41	10.29	10.10	9.88	9.63	9.25	8.65	7.89	7.05	6.28	5.66	5.18		
V 82.0	6.15	6.14	6.08	6.00	5.89	5.77	5.56	5.24	4.83	4.39	3.98	3.61	3.24		
V 83.0	3.39	3.38	3.37	3.35	3.32	3.26	3.16	3.00	2.80	2.61	2.42	2.21	1.97		
V 84.0	1.74	1.74	1.74	1.74	1.74	1.72	1.68	1.61	1.53	1.46	1.38	1.29	1.17		
V 85.0	0.84	0.84	0.84	0.84	0.85	0.85	0.84	0.82	0.79	0.76	0.74	0.70	0.66		
V 86.0	0.36	0.36	0.36	0.36	0.37	0.38	0.38	0.38	0.37	0.36	0.36	0.35	0.34		
V 87.0	0.14	0.14	0.14	0.14	0.14	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15		
V 88.0	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06		
V 89.0	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02		
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 217131.115
Name START AS HPS-T 150W

Measur.

Code CL2303/11-03A
Name START AS ST 150W

Luminaire Flux	11663.40 lm	Luminaire Power	150.00 W	Efficacy	77.76 lm/W	Efficiency	66.65%
Lamps Flux	17500.00 lm	Maximum value	499.56 cd/klm	Position	H=0.00 V=51.00	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	257.68	231.97	204.12	174.78	147.78	124.29	103.61	86.41	70.01	52.88	35.33	22.94	15.14
V 57.0	249.74	224.09	196.55	167.50	142.16	119.58	100.37	83.45	67.13	48.74	32.54	21.38	14.19
V 58.0	241.01	215.51	188.14	159.96	136.35	114.79	97.08	80.32	63.67	44.88	30.26	19.73	13.18
V 59.0	231.76	206.67	179.57	153.39	130.82	110.59	93.48	76.85	59.13	41.01	27.81	17.98	12.11
V 60.0	221.95	197.16	170.93	146.63	124.96	106.06	89.45	72.72	54.12	37.29	25.01	16.49	11.00
V 61.0	211.03	186.64	161.89	139.39	118.62	101.18	84.85	67.88	48.45	33.57	22.00	14.90	9.87
V 62.0	199.24	175.62	152.58	131.47	112.14	95.91	79.77	61.90	43.25	29.85	19.67	13.52	8.90
V 63.0	187.07	164.56	143.61	123.85	106.10	90.51	74.33	55.55	38.10	26.14	17.44	12.12	7.89
V 64.0	174.60	153.94	134.98	116.48	100.22	84.96	68.10	48.97	33.72	23.02	15.63	10.82	7.13
V 65.0	161.67	143.11	125.82	109.01	93.83	77.97	60.52	42.34	29.29	19.90	13.92	9.53	6.43
V 66.0	148.11	131.70	115.96	100.62	85.74	69.69	51.98	35.67	25.07	17.46	12.32	8.42	5.73
V 67.0	135.26	120.55	105.74	91.86	76.74	60.01	42.98	29.77	21.16	15.00	10.74	7.42	5.06
V 68.0	123.96	110.37	97.06	83.17	67.19	50.45	35.10	24.29	17.85	13.13	9.36	6.48	4.39
V 69.0	112.55	100.98	88.09	74.40	57.54	41.66	28.27	20.48	15.25	11.29	8.01	5.64	3.87
V 70.0	98.57	88.06	76.96	62.93	47.41	33.55	23.44	17.14	12.95	9.64	6.89	4.85	3.33
V 71.0	80.11	71.48	62.04	49.28	36.85	26.53	19.00	14.26	10.95	8.10	5.82	4.17	2.91
V 72.0	60.12	54.20	45.31	36.20	27.33	20.48	15.11	11.82	9.04	6.73	4.95	3.52	2.51
V 73.0	45.78	39.69	33.32	25.72	20.78	15.54	12.30	9.58	7.41	5.60	4.12	3.01	2.15
V 74.0	36.33	30.89	25.56	20.60	16.15	12.60	9.90	7.80	6.07	4.62	3.47	2.51	1.84
V 75.0	29.66	25.40	20.83	16.78	13.04	10.15	7.98	6.34	4.93	3.82	2.82	2.12	1.56
V 76.0	23.96	20.29	16.69	13.26	10.21	7.99	6.37	5.03	4.01	3.06	2.35	1.75	1.33
V 77.0	18.42	15.51	12.50	9.69	7.67	6.06	4.93	4.00	3.16	2.48	1.88	1.47	1.11
V 78.0	13.70	11.33	9.04	6.94	5.54	4.59	3.73	3.09	2.48	1.95	1.55	1.19	0.94
V 79.0	9.92	8.04	6.42	5.08	4.08	3.40	2.86	2.33	1.92	1.55	1.23	1.00	0.78
V 80.0	6.89	5.69	4.55	3.70	3.05	2.52	2.13	1.80	1.47	1.22	1.00	0.80	0.65
V 81.0	4.57	3.85	3.15	2.60	2.19	1.85	1.55	1.34	1.14	0.94	0.78	0.65	0.51
V 82.0	2.87	2.47	2.07	1.72	1.47	1.30	1.14	0.99	0.85	0.72	0.60	0.49	0.41
V 83.0	1.72	1.50	1.30	1.12	0.97	0.86	0.80	0.72	0.62	0.51	0.44	0.37	0.30
V 84.0	1.02	0.89	0.80	0.72	0.65	0.59	0.53	0.48	0.43	0.37	0.31	0.26	0.22
V 85.0	0.60	0.55	0.49	0.45	0.41	0.38	0.35	0.31	0.27	0.24	0.21	0.19	0.16
V 86.0	0.33	0.31	0.29	0.27	0.24	0.22	0.21	0.19	0.17	0.16	0.14	0.12	0.11
V 87.0	0.15	0.15	0.14	0.14	0.12	0.11	0.10	0.10	0.10	0.09	0.09	0.09	0.08
V 88.0	0.06	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.06
V 89.0	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	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 217131.115
Name START AS HPS-T 150W

Measurem.

Code CL2303/11-03A
Name START AS ST 150W

Luminaire Flux	11663.40 lm	Luminaire Power	150.00 W	Efficacy	77.76 lm/W	Efficiency	66.65%
Lamps Flux	17500.00 lm	Maximum value	499.56 cd/klm	Position	H=0.00 V=51.00	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	9.74	5.91	3.46	1.97	1.19	0.73	0.50	0.31	0.17	0.06	0.00
V 57.0	9.00	5.45	3.23	1.85	1.12	0.70	0.48	0.30	0.17	0.06	0.00
V 58.0	8.24	5.07	3.01	1.72	1.06	0.68	0.46	0.29	0.16	0.06	0.00
V 59.0	7.58	4.68	2.77	1.60	1.00	0.65	0.44	0.28	0.16	0.06	0.00
V 60.0	6.88	4.28	2.56	1.52	0.95	0.62	0.42	0.28	0.16	0.06	0.00
V 61.0	6.26	3.96	2.38	1.43	0.89	0.59	0.40	0.27	0.16	0.06	0.00
V 62.0	5.74	3.62	2.18	1.34	0.83	0.57	0.39	0.26	0.15	0.06	0.00
V 63.0	5.21	3.27	2.00	1.25	0.79	0.54	0.37	0.25	0.15	0.06	0.00
V 64.0	4.73	3.00	1.86	1.16	0.75	0.51	0.35	0.24	0.15	0.06	0.00
V 65.0	4.23	2.71	1.71	1.07	0.71	0.49	0.34	0.23	0.15	0.06	0.00
V 66.0	3.75	2.43	1.55	0.98	0.66	0.46	0.32	0.22	0.14	0.06	0.00
V 67.0	3.36	2.21	1.42	0.91	0.62	0.43	0.30	0.22	0.14	0.05	0.00
V 68.0	2.95	1.98	1.29	0.85	0.58	0.41	0.29	0.20	0.14	0.05	0.00
V 69.0	2.62	1.76	1.15	0.78	0.54	0.38	0.27	0.19	0.14	0.05	0.00
V 70.0	2.31	1.57	1.05	0.72	0.50	0.36	0.26	0.19	0.13	0.05	0.00
V 71.0	2.02	1.38	0.95	0.66	0.47	0.33	0.24	0.18	0.13	0.05	0.00
V 72.0	1.77	1.22	0.86	0.60	0.43	0.31	0.23	0.18	0.13	0.04	0.00
V 73.0	1.53	1.09	0.77	0.55	0.39	0.29	0.21	0.17	0.12	0.04	0.00
V 74.0	1.33	0.95	0.69	0.50	0.36	0.27	0.20	0.16	0.12	0.04	0.00
V 75.0	1.15	0.84	0.61	0.45	0.32	0.24	0.19	0.16	0.12	0.04	0.00
V 76.0	0.99	0.74	0.54	0.40	0.30	0.22	0.18	0.15	0.11	0.04	0.00
V 77.0	0.85	0.63	0.48	0.35	0.27	0.20	0.17	0.15	0.11	0.03	0.00
V 78.0	0.72	0.55	0.41	0.31	0.24	0.19	0.15	0.14	0.11	0.03	0.00
V 79.0	0.61	0.47	0.36	0.27	0.21	0.17	0.14	0.13	0.10	0.03	0.00
V 80.0	0.50	0.39	0.30	0.23	0.19	0.15	0.13	0.13	0.09	0.03	0.00
V 81.0	0.41	0.32	0.25	0.20	0.16	0.14	0.12	0.12	0.08	0.02	0.00
V 82.0	0.33	0.26	0.21	0.17	0.14	0.13	0.12	0.11	0.07	0.02	0.00
V 83.0	0.25	0.20	0.17	0.14	0.13	0.12	0.11	0.10	0.06	0.02	0.00
V 84.0	0.19	0.16	0.13	0.12	0.11	0.11	0.10	0.09	0.06	0.02	0.00
V 85.0	0.13	0.11	0.11	0.11	0.10	0.10	0.08	0.07	0.05	0.01	0.00
V 86.0	0.10	0.10	0.10	0.09	0.09	0.08	0.07	0.06	0.04	0.01	0.00
V 87.0	0.08	0.08	0.08	0.08	0.07	0.06	0.05	0.04	0.03	0.01	0.00
V 88.0	0.06	0.06	0.05	0.05	0.05	0.04	0.03	0.03	0.02	0.01	0.00
V 89.0	0.03	0.03	0.03	0.03	0.02	0.02	0.02	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