

Test Report

Luminaire Manufacturer

C Luce Srl

Lighting Device

247643.138 JOY 2.0 24.5W 700mA 4000K IP66

Test Report Code

1006A/CL2303/19-20I-G2



	
Approved by Laboratory Director (PT-DLAB)	Approved by Laboratory Technician

Report Date 15/11/19

Attachments		
	▶ Photometric Test Report	<input checked="" type="checkbox"/>
	▶ Electrical Parameters Measurement	<input checked="" type="checkbox"/>
	▶ Results of TSI Photometric Test	<input type="checkbox"/>
	▶ Colorimetric Test Report	<input checked="" type="checkbox"/>
	▶ Colorimetric and Luminance Test Report	<input type="checkbox"/>
	▶ Photobiological Risk Test Report	<input type="checkbox"/>
	▶ Emergency Test Report	<input type="checkbox"/>
	▶ Parasite Light Test (Background Noise Assessment)	<input type="checkbox"/>
	▶ Declaration of Conformity to Regional Laws regarding Light Pollution	<input type="checkbox"/>
	▶ Conformity Assessment to IMQ Performance - April 2014	<input type="checkbox"/>
	▶ Measuring system check	<input type="checkbox"/>
	▶ List of photometric data processing attached	<input checked="" type="checkbox"/>

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1. Photometric Test Report

Test Code	1006A/CL2303/19-20I-G1
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Laboratory Director	Mr. Stefano Borsani
Laboratory Technician	Mr. Abdellatif Zaher

Manufacturer Data	
Manufacturer	C Luce Srl
OxyTech Manufacturer Code	CL2303
Address	Via Marmolada, 5/11 - 20060 Truccazzano (MI)
Contact Person	Mr. Mirko Del Giudice

Lighting Device Data	
Type	LED Projector
Model	JOY
Description	247643.138 JOY 2.0 24.5W 700mA 4000K IP66
Dimensions [mm]	255-190-55
Light Area Dimensions [mm]	100-145-0
Led Type and Make	SAMSUNG COB D-Gen.3
Ballast Type and Make	TCI PRO FLAT 30 BI
Heat Sink Type and Make	---
Lamp Type and Power [W]	LED 26.60W
Laboratory Ballast/ Lamp References	1006B/CL2303/19-20L-G1

Test Data	
Test Date	15-11-19
Measurement Type	Asymmetric C-γ
Reference Norm	EN 13032-4: 2015
Internal Document Reference	Procedure PT1006a Instruction IS1006e
Lamp Stabilization Time	45 min

Uncertainties	
Source Instability	=< 1%
Efficiency Calculation Uncertainty (LOR)	± 2.5%
Luminous Intensity Normalized Values	± 2.5%
Angular Precision in C and γ	± 0.05°

Laboratory Measuring Instruments

Goniophotometer (G2)	T2 Luminaire rotation Goniophotometer in accordance with:	
	<ul style="list-style-type: none"> ▶ Norm EN 13032-1:2004 types 1.1, 1.2 and 1.3 ▶ Recommendation CIE 70:1987 Chap.5 types 2 and 3 	
	Serial Number: OX-018	
	Measuring distance: 6.44 m	
Voltage Stabilizer	Electrotest model TPS/M 6000-	Serial Number: OX-037
Multimeter	Yokogawa Wt130	Serial Number: OX-014
Luxmeter	C&G Labolux	Serial Number: OX-034
Anemometer	Delta Ohm-HD2001.2	Serial Number: OX-046
Thermometer	Delta Ohm-HD2001.2	Serial Number: OX-047

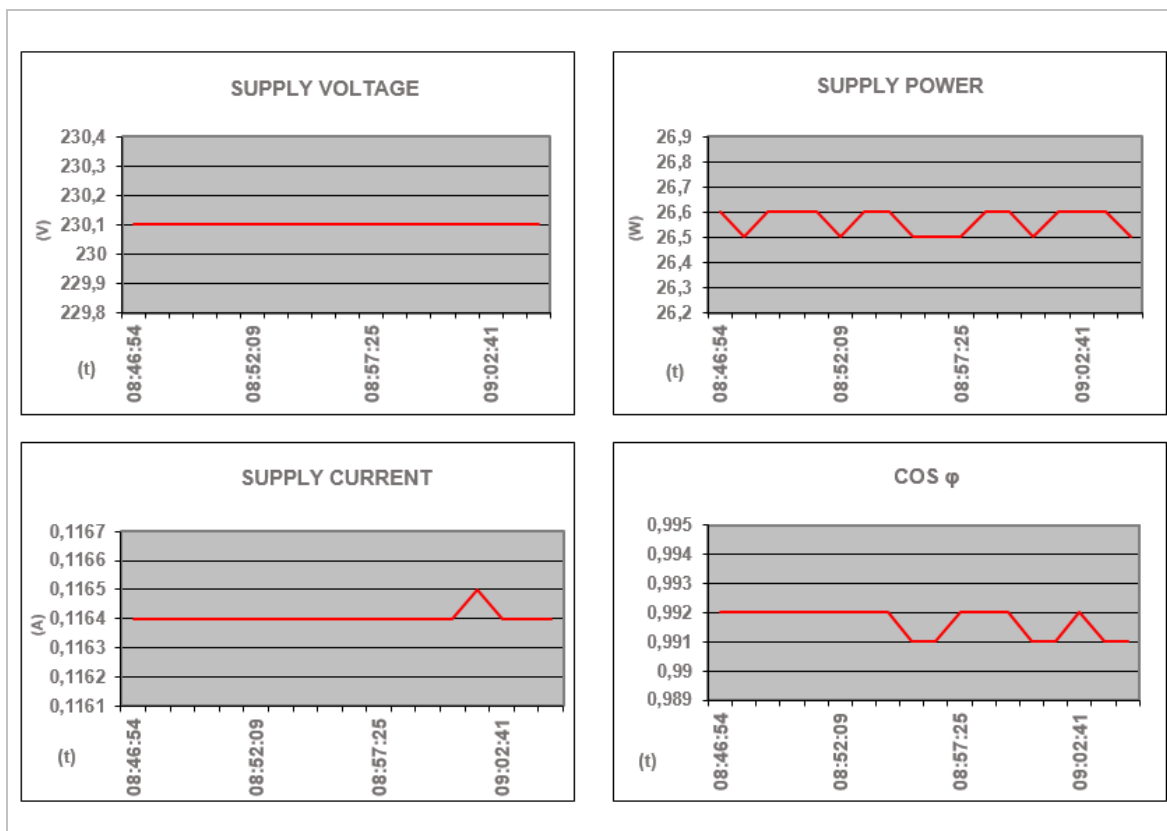
Electrical Test Parameters

Type of Source	<input checked="" type="checkbox"/> Mains	<input type="checkbox"/> Battery
Source Voltage	230 V \pm 0.2%	
Harmonic Distortion	< 0,5%	
Source frequency	50 Hz \pm 0.1%	

Environmental Conditions

Laboratory Temperature [°C]	25°C \pm 1°C
Relative Humidity	60%
Air Movement	< 0,2 m/s

1.1 Electrical Parameters during Test



1.2 Test Notes

- The data in this report correspond to those obtained as per the above-described test
- This Report only concerns the sample under trial
- The information contained in this report cannot be extended to other sample luminaires that differ in any way from those used in this test
- The Test Report Code is shown on the luminaire shield and reflector and cannot be deleted

	
Approved by Laboratory Director (PT-DLAB)	Approved by Laboratory Technician

2. Colorimetric Test Report

Colorimetric Test Code	1006A/CL2303/19-20I-Col-G2
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Laboratory Director	Mr. Stefano Borsani
Laboratory Technician	Mr. Abdellatif Zaher

Manufacturer Data	
Manufacturer	C Luce Srl
OxyTech Manufacturer Code	CL2303
Address	Via Marmolada, 5/11 - 20060 Truccazzano (MI)
Contact Person	Mr. Mirko Del Giudice

Lighting Device Data	
Type	LED Projector
Model	JOY
Description	247643.138 JOY 2.0 24.5W 700mA 4000K IP66
Dimensions [mm]	255-190-55
Light Area Dimensions [mm]	100-145-0
Led Type and Make	SAMSUNG COB D-Gen.3
Ballast Type and Make	TCI PRO FLAT 30 BI
Heat Sink Type and Make	---
Laboratory Ballast/Lamp References	---

Test Data	
Test Date	15-11-19
Measurement Type	Asymmetric C-γ
Reference Norm	EN 13032-4:2015
Internal Reference Documents	Procedure PT1006c Instruction IS1006c
Lamp Stabilization Time	30 min

Uncertainties	
Source Instability	=< 1%
Angular Precision in C and γ	± 0.05°

Laboratory Measuring Instruments

Goniophotometer (G2)	T2 Luminaire rotation Goniophotometer in accordance with:	
	<ul style="list-style-type: none"> ▶ Norm EN 13032-1:2004 types 1.1, 1.2 and 1.3 ▶ Recommendation CIE 70:1987 Chap.5 types 2 and 3 	
	Serial Number: OX-018	
	Measuring distance: 4.61 m	
Voltage Stabilizer	Electrotest model TPS/M 6000-	Serial Number: OX-037
Multimeter	Yokogawa Wt130	Serial Number: OX-014
Anemometer	Delta Ohm-HD2001.2	Serial Number: OX-046
Thermometer	Delta Ohm-HD2001.2	Serial Number: OX-047
Colorimeter	Jeti Spectroradiometer Specbos 1201 Focus	Serial Number: OX-030

Electrical Parameters Test

Source Voltage	230 V \pm 0.2%
Harmonic Distortion	< 0,5%
Source Frequency	50 Hz \pm 0.1%

Environmental Conditions

Laboratory Temperature [°C]	25°C \pm 1°C
Relative Humidity	60%
Air Movement	< 0,2 m/s

Colorimetric Characteristics

Measurement Description	1. The colorimetric measurement is performed in fixed positions.
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2.1 Test Notes

- The data in this report correspond to those obtained as per the above-described test
- This Report only concerns the sample under trial
- The information contained in this report cannot be extended to other sample luminaires that differ in any way from those used in this test
- The Test Report Code is shown on the luminaire shield and reflector and cannot be deleted

	
Approved by Laboratory Director (PT-DLAB)	Approved by Laboratory Technician

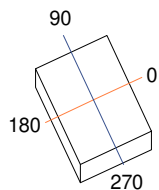
3. List of Photometric Data Processing Attached

Data Processing Index	o Intensity Matrix [cd/klm]		<input checked="" type="checkbox"/>
	o Polar Diagram		<input checked="" type="checkbox"/>
	o Cartesian Diagram		<input type="checkbox"/>
	o Spectral Data, Spectral Distribution and Spectrum Graph		<input checked="" type="checkbox"/>
	o CRI Graphs and McAdam's Diagram		<input checked="" type="checkbox"/>
	o IES TM-30 Parameters		<input checked="" type="checkbox"/>
	o Standard Photometric File Formats	Eulumdat	<input checked="" type="checkbox"/>
		IESNA	<input type="checkbox"/>
		OXL OxyTech	<input checked="" type="checkbox"/>

Luminaire			Measurem.			Source	
Code	247643.138		Code	CL2303/19-20I		Code	1006B/CL2303/19-20L
Name	247643.138 JOY 2.0 24.5W 700mA 4K IP66		Name	247643.138 JOY 2.0 24.5W 700mA 4K IP66		Number	1
Line	OXL		Date	15-11-2019		Position	
Luminaire Flux		3077.49 lm	Luminaire Power		26.60 W	Efficacy	115.70 lm/W
Sources Flux		3077.49 lm	Maximum value	375.63 cd/klm	Position	C=340.00 G=2.00	CG Asymmetrical
Rectangular Luminaire		Length	255 mm	Width	190 mm	Height	55 mm
Rectangular Luminous Area		Length	100 mm	Width	145 mm	Height	0 mm
Horizontal Luminous Area		0.014500 m2		Emitting area on Plane 180°		0.000000 m2	
Emitting area on Plane 0°		0.000000 m2		Emitting area on Plane 270°		0.000000 m2	
Emitting area on Plane 90°		0.000000 m2		Glare area at 76°		0.003508 m2	
Coordinate system		CG	Symmetry Type		Asymmetrical		
Date		15-11-2019	Maximum Gamma Angle		90		
Measurement Distance		6.44	Measurement Flux		3077.49 lm		
Operator		AZ	Rated Voltage		230.10 V		
Temperature		24.90 °C	Rated Current		0.12 A		
Humidity		33.40 %	Photocell		C&G - OX034		
Notes		Power 26.60000PF 0.99200					
Luminaire Sources							
Line	Code		Name		Flux [lm]	Pow. [W]	Q.ty
1006B/CL2303/19-20L	1006B/CL2303/19-20L		1006B/CL2303/19-20L		3077.49	26.60	1
C.I.E.	52 88 100 100 100	D DIN 5040		A40			
F UTE	1.00 D	B NBN		BZ 4 / 1.25 / BZ 3			



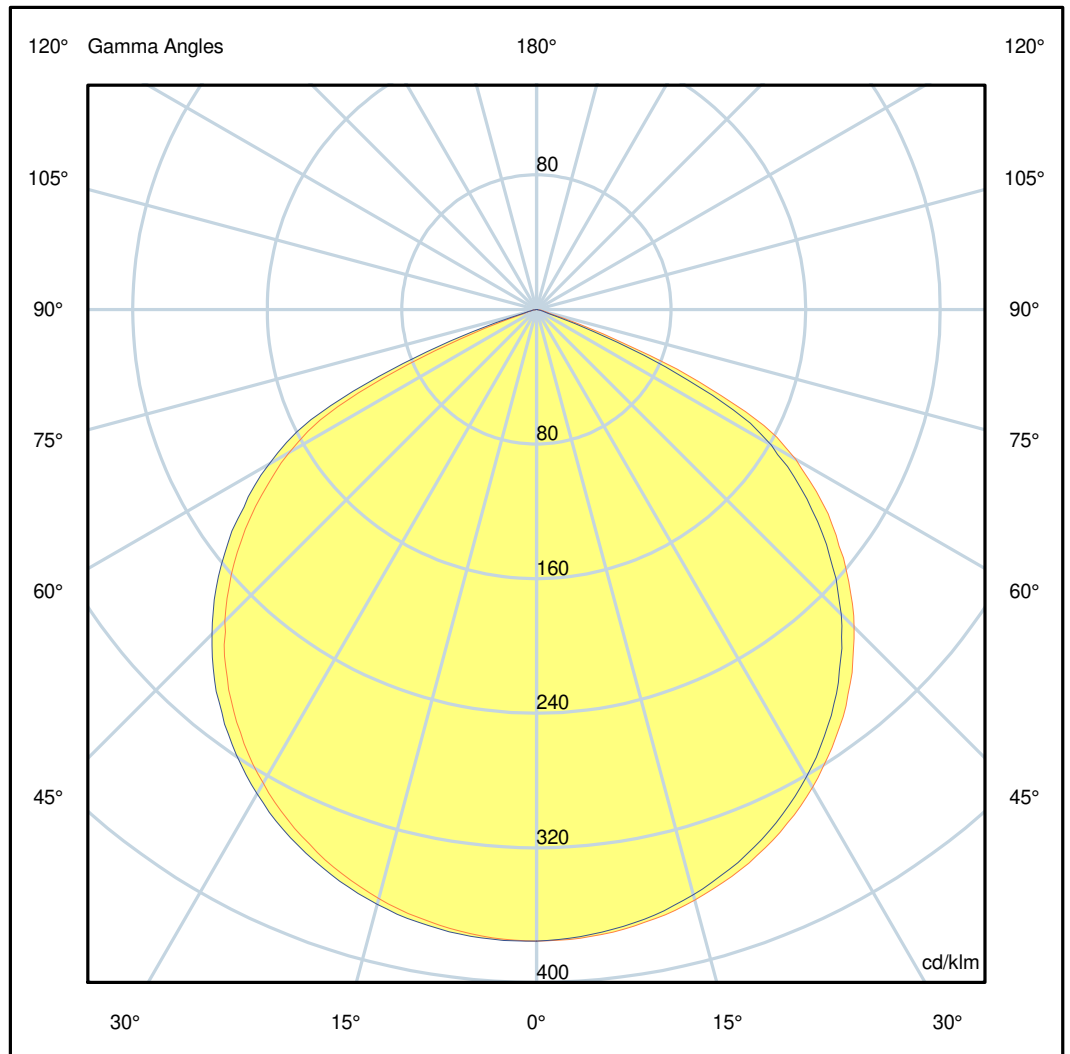
255mm x 190mm



C Halfplanes

180.0 — 0.0
270.0 — 90.0

ULOR 0.00 %
DLOR 100.00 %
RN 0.00 %



Luminaire				Measur.				Source						
Code	247643.138			Code	CL2303/19-20I			Code	1006B/CL2303/19-20L					
Name	247643.138 JOY 2.0 24.5W 700mA 4K IP66			Name	247643.138 JOY 2.0 24.5W 700mA 4K IP66			Number	1					
Line	OXL			Date	15-11-2019			Position						
Luminaire Flux	3077.49 lm			Luminaire Power	26.60 W			Efficacy	115.70 lm/W			Efficiency	100.00%	
Sources Flux	3077.49 lm			Maximum value	375.63 cd/klm			Position	C=340.00 G=2.00			CG	Asymmetrical	
Luminous Intensity Table cd/klm														
Table 1/6														
	C 0.00	C 10.00	C 20.00	C 30.00	C 40.00	C 50.00	C 60.00	C 70.00	C 80.00	C 90.00	C 100.00	C 110.00	C 120.00	
G 0.0	375.31	375.31	375.31	375.31	375.31	375.31	375.31	375.31	375.31	375.31	375.31	375.31	375.31	
G 1.0	375.32	375.36	375.23	375.25	375.17	375.40	375.16	375.08	375.10	375.00	375.02	374.89	374.82	
G 2.0	375.04	375.09	374.95	374.95	374.88	375.19	374.64	374.69	374.74	374.60	374.54	374.51	374.17	
G 3.0	374.86	374.80	374.60	374.71	374.51	374.61	374.30	374.21	374.25	374.14	374.01	373.93	373.71	
G 4.0	374.50	374.42	374.18	374.27	374.11	374.01	373.77	373.64	373.73	373.61	373.60	373.42	373.09	
G 5.0	374.01	373.95	373.84	373.79	373.25	373.40	373.19	372.99	373.11	372.81	372.79	372.78	372.42	
G 6.0	373.45	373.33	373.15	373.21	372.46	372.88	372.47	372.29	372.37	372.01	371.94	371.85	371.63	
G 7.0	372.76	372.57	372.48	372.37	371.63	371.93	371.49	371.57	371.34	371.12	371.03	371.01	370.80	
G 8.0	372.01	371.99	371.29	371.38	370.91	370.95	370.54	370.51	370.46	370.28	370.06	370.11	369.57	
G 9.0	371.02	371.13	370.41	370.25	369.96	370.04	369.51	369.46	369.15	369.13	368.99	369.00	368.38	
G 10.0	369.84	370.03	369.42	369.33	368.67	369.19	368.47	368.26	367.96	368.01	367.81	367.69	367.00	
G 11.0	368.85	368.77	368.19	368.29	367.80	367.93	367.05	366.93	366.84	366.61	366.34	366.27	365.60	
G 12.0	367.77	367.31	367.10	367.17	366.46	366.42	365.72	365.56	365.46	365.26	364.67	364.74	364.30	
G 13.0	366.42	365.98	365.75	365.43	365.03	364.93	364.17	364.00	363.72	363.44	363.35	363.03	362.79	
G 14.0	364.97	364.59	364.32	363.93	363.43	363.36	362.53	362.38	362.16	361.79	361.75	361.34	361.13	
G 15.0	363.39	363.11	362.79	362.18	361.76	361.67	360.87	360.48	360.50	360.08	359.94	359.73	359.15	
G 16.0	361.59	361.54	361.13	360.58	360.24	359.73	359.22	358.71	358.62	358.17	357.87	357.81	357.48	
G 17.0	359.86	359.58	359.37	359.06	358.16	358.07	357.18	356.92	356.50	356.15	355.88	355.73	355.46	
G 18.0	358.12	357.83	357.21	357.44	356.16	356.07	355.45	354.98	354.64	353.85	353.78	353.78	353.30	
G 19.0	356.26	355.76	355.13	354.95	354.17	354.05	353.29	352.89	352.63	351.87	351.45	351.74	351.06	
G 20.0	354.24	353.91	353.40	352.70	352.11	351.93	351.11	350.61	350.04	349.89	349.20	348.97	348.67	
G 21.0	352.25	351.61	351.17	350.75	349.61	349.64	348.45	348.15	347.74	347.31	346.80	346.73	346.18	
G 22.0	349.78	349.13	348.77	348.22	347.39	347.11	346.07	345.78	345.36	344.77	344.42	344.08	343.68	
G 23.0	347.59	346.74	346.58	345.62	345.11	344.55	343.52	343.12	342.74	342.32	341.78	341.35	341.14	
G 24.0	345.18	344.47	344.03	343.26	342.54	342.04	340.93	340.52	339.74	339.51	338.67	338.91	338.21	
G 25.0	342.69	341.94	341.23	340.76	339.83	339.41	337.91	337.80	336.85	336.68	336.09	336.11	335.05	
G 26.0	339.71	339.17	338.20	337.51	336.98	336.61	335.02	334.84	333.71	333.61	333.16	333.13	332.07	
G 27.0	337.21	336.35	335.49	335.04	333.71	333.74	332.35	331.63	331.10	330.61	330.30	330.01	329.08	
G 28.0	334.29	333.51	332.54	332.05	330.61	330.65	329.40	328.86	327.80	327.40	327.20	326.89	325.82	
G 29.0	331.14	330.59	329.15	328.94	327.51	327.21	326.14	325.59	324.19	324.20	323.43	323.30	322.48	
G 30.0	328.05	327.08	326.66	325.33	324.09	323.77	322.63	322.07	320.93	320.65	320.07	319.85	319.40	
G 31.0	324.68	324.26	322.41	322.24	320.59	320.38	319.31	318.85	317.83	317.21	316.51	316.79	315.49	
G 32.0	321.00	320.51	319.16	318.44	317.21	317.20	315.75	315.73	314.09	313.79	313.25	313.09	311.83	
G 33.0	317.66	316.98	315.76	315.20	313.58	313.14	312.08	311.43	310.00	309.66	309.53	309.07	308.17	
G 34.0	314.10	313.19	312.54	311.66	310.32	309.52	308.40	307.59	306.13	305.79	304.94	305.20	304.20	
G 35.0	310.27	309.42	308.23	307.92	306.36	306.02	304.58	303.85	302.54	301.99	301.40	301.91	300.57	
G 36.0	306.50	305.60	305.14	304.11	302.37	302.11	300.50	299.85	298.43	298.13	297.07	297.39	295.78	
G 37.0	302.89	301.56	301.09	300.01	298.34	297.62	296.03	295.66	294.50	293.53	293.29	292.91	291.58	
G 38.0	298.79	297.73	297.10	296.22	294.60	293.55	291.95	291.24	290.24	289.61	288.92	288.58	287.38	
G 39.0	294.22	293.34	292.80	292.32	290.24	288.89	287.63	286.87	285.87	285.12	284.31	284.64	282.90	
G 40.0	290.11	289.07	288.18	287.94	284.78	284.42	283.09	282.06	281.30	280.01	279.54	280.09	277.89	
G 41.0	285.79	285.10	283.79	283.11	280.62	280.33	278.08	277.41	276.30	275.42	275.03	275.01	273.25	
G 42.0	280.81	280.21	279.22	277.60	276.53	275.67	273.47	272.99	271.14	271.17	270.48	270.20	268.84	
G 43.0	276.23	275.84	274.64	273.49	272.30	270.50	268.71	267.95	266.63	265.97	264.86	265.21	263.20	
G 44.0	271.73	270.28	269.92	268.18	266.81	265.61	263.84	262.94	261.19	261.19	260.11	260.12	258.55	
G 45.0	266.92	265.62	265.07	263.22	262.08	261.03	258.63	258.41	255.59	256.24	253.87	255.33	253.18	
G 46.0	261.97	260.45	259.57	258.48	256.46	255.12	253.32	253.02	250.81	250.13	248.98	249.39	247.78	
G 47.0	256.65	255.64	253.75	252.57	251.20	250.33	247.72	247.04	245.45	244.90	243.97	244.07	241.42	
G 48.0	251.19	250.25	248.96	247.15	246.12	244.97	242.26	242.02	239.91	239.51	238.47	237.96	236.23	
G 49.0	245.78	244.80	243.27	241.90	239.35	239.40	236.56	235.75	233.91	233.10	231.82	232.25	229.70	
G 50.0	240.20	239.16	237.63	236.72	234.18	233.37	231.01	230.45	227.75	227.26	226.41	226.31	223.58	
G 51.0	234.67	233.30	232.01	230.17	228.32	227.56	225.15	223.87	221.99	221.82	219.58	220.40	218.37	
G 52.0	228.27	227.47	226.19	224.97	221.65	221.74	218.63	217.98	215.60	215.28	213.66	214.21	211.84	
G 53.0	222.87	221.51	220.39	218.85	215.69	215.10	213.02	211.83	209.62	209.12	207.29	207.44	205.12	
G 54.0	217.04	215.79	214.40	211.93	210.16	209.37	205.92	205.04	202.97	202.15	201.01	200.92	198.56	
G 55.0	211.59	209.22	208.28	206.14	203.71	202.96	199.40	199.03	196.18	196.19	194.46	194.14	192.33	
G 56.0	204.72	202.74	201.35	200.43	197.23	196.32	193.51	192.47	189.44	189.33	187.15	186.96	185.35	
G 57.0	198.23	196.16	194.45	193.09	190.50	189.64	186.04	185.54	183.19	182.71	180.68	180.74	177.18	
G 58.0	191.24	189.57	187.85	186.27	183.60	182.66	179.00	178.59	176.09	175.86	173.92	172.92	170.75	
G 59.0	183.68	183.06	180.72	179.89	176.56	175.56	172.34	171.46	168.91	167.17	166.15	166.22	164.17	
G 60.0	177.86	175.84	173.81	172.63	170.04	168.80	165.17	163.87	160.74	161.15	159.39	158.34	155.77	
G 61.0	169.70	168.43	166.55	165.39	162.62	161.29	157.03	156.15	153.77	152.32	151.51	150.33	148.41	
G 62.0	161.76	160.45	159.12	157.04	154.81	152.89	149.25	148.						

Luminaire				Measurem.				Source					
Code	247643.138			Code	CL2303/19-20I			Code	1006B/CL2303/19-20L				
Name	247643.138 JOY 2.0 24.5W 700mA 4K IP66			Name	247643.138 JOY 2.0 24.5W 700mA 4K IP66			Number	1				
Line	OXL			Date	15-11-2019			Position					
Luminaire Flux	3077.49 lm			Luminaire Power	26.60 W			Efficacy	115.70 lm/W				
Sources Flux	3077.49 lm			Maximum value	375.63 cd/klm			Position	C=340.00 G=2.00				
							CG Asymmetrical			100.00%			
Luminous Intensity Table cd/klm Table 2/6													
	C 130.00	C 140.00	C 150.00	C 160.00	C 170.00	C 180.00	C 190.00	C 200.00	C 210.00	C 220.00	C 230.00	C 240.00	C 250.00
G 0.0	375.31	375.31	375.31	375.31	375.31	375.31	375.31	375.31	375.31	375.31	375.31	375.31	375.31
G 1.0	375.03	374.92	375.00	375.12	374.98	375.19	375.31	375.12	375.28	375.21	375.11	375.22	375.22
G 2.0	374.52	374.39	374.58	374.67	374.57	375.06	375.20	374.69	375.34	375.09	374.95	375.16	375.30
G 3.0	373.90	373.87	374.13	374.16	374.04	374.70	374.87	374.62	374.88	374.85	374.89	375.10	375.24
G 4.0	373.44	373.17	373.49	373.66	373.50	374.28	374.38	374.24	374.44	374.50	374.66	374.77	374.90
G 5.0	372.69	372.61	372.63	373.13	372.88	373.71	373.74	373.25	374.08	374.14	374.32	374.43	374.56
G 6.0	371.95	371.55	371.76	372.34	372.04	373.01	373.35	372.67	373.49	373.67	373.85	373.94	374.15
G 7.0	370.89	370.48	370.83	371.36	371.02	372.26	372.56	372.20	372.88	372.89	373.32	373.28	373.47
G 8.0	369.65	369.62	369.86	370.34	370.03	371.38	371.73	371.40	371.76	372.09	372.43	372.51	372.65
G 9.0	368.57	368.64	368.70	369.21	368.92	370.34	370.79	370.67	370.87	371.31	371.68	371.82	372.09
G 10.0	367.47	367.28	367.42	367.82	367.71	369.24	369.83	369.62	369.97	370.32	370.79	370.86	371.32
G 11.0	366.10	366.02	366.02	366.39	366.35	368.03	368.67	368.51	368.97	369.18	369.70	369.94	370.26
G 12.0	364.64	364.33	364.58	365.07	364.90	366.99	367.25	367.36	367.83	368.10	368.72	368.98	369.09
G 13.0	362.99	362.71	363.18	363.49	363.35	365.54	365.93	365.95	366.47	366.57	367.26	367.56	367.86
G 14.0	361.54	361.14	361.49	361.66	361.58	364.07	364.51	364.43	364.88	364.96	365.87	366.20	366.60
G 15.0	359.49	359.25	359.61	359.99	359.84	362.36	362.71	362.72	363.45	363.27	364.34	364.90	365.27
G 16.0	357.33	357.33	357.53	358.12	358.01	360.58	361.23	361.12	361.88	361.88	362.72	363.27	363.68
G 17.0	355.50	355.35	355.45	356.05	356.07	358.75	359.33	359.04	360.07	359.97	361.23	361.44	362.28
G 18.0	353.57	353.30	353.20	354.04	353.76	356.77	357.69	357.31	358.00	358.48	359.34	359.56	360.15
G 19.0	351.55	351.41	351.09	351.74	351.56	354.68	355.68	355.35	355.91	356.86	357.34	357.83	358.17
G 20.0	349.09	349.09	349.02	349.35	349.33	352.66	353.16	353.23	353.65	354.17	355.28	355.76	356.47
G 21.0	346.55	346.53	346.59	346.88	347.12	350.51	350.87	350.87	351.70	352.32	353.15	353.55	354.17
G 22.0	343.76	343.57	343.78	344.58	344.71	347.94	348.54	348.48	349.23	350.32	350.75	351.30	352.03
G 23.0	341.07	341.00	341.35	341.69	341.74	345.21	345.93	346.22	346.82	347.69	348.46	349.09	349.76
G 24.0	338.63	337.99	338.57	339.03	339.07	342.73	343.27	343.73	344.58	345.10	345.94	346.70	347.32
G 25.0	335.57	335.44	335.18	336.37	336.20	340.18	340.98	340.99	341.60	342.73	343.29	344.23	344.93
G 26.0	332.45	332.60	332.67	333.41	333.33	337.46	338.14	337.91	338.72	340.06	340.57	341.60	342.38
G 27.0	329.66	329.22	329.53	329.94	330.18	334.54	335.04	335.43	335.60	337.50	337.77	338.93	339.63
G 28.0	326.12	325.73	326.21	326.84	327.12	331.53	331.97	332.42	333.04	333.89	334.71	335.78	336.55
G 29.0	322.64	322.67	323.27	323.39	323.91	328.51	328.78	329.05	330.16	331.05	331.63	332.85	333.78
G 30.0	319.16	319.28	320.10	320.13	320.14	324.96	325.48	325.88	326.62	328.06	328.45	329.97	330.60
G 31.0	316.04	315.52	315.82	316.79	316.80	321.75	322.36	322.67	323.30	324.71	325.28	326.67	327.41
G 32.0	312.35	311.76	312.48	313.50	313.15	318.37	318.74	319.33	320.30	321.32	322.34	323.41	323.64
G 33.0	308.59	308.34	308.79	309.44	309.43	314.73	314.92	315.73	316.67	317.65	318.62	320.01	320.98
G 34.0	304.71	304.53	304.98	305.49	305.43	311.09	311.75	312.15	313.04	314.14	315.07	316.22	317.22
G 35.0	300.73	300.97	300.67	301.61	301.53	306.90	308.06	308.11	308.75	310.34	311.43	312.54	313.57
G 36.0	296.50	296.50	296.53	297.47	297.38	303.20	303.85	304.12	304.89	306.44	307.26	308.78	309.79
G 37.0	292.11	292.37	292.36	293.31	293.66	299.00	300.26	299.62	301.31	302.01	303.22	304.56	305.86
G 38.0	288.06	287.53	287.67	288.95	289.51	294.89	296.08	295.82	297.01	298.58	299.40	300.44	301.74
G 39.0	283.67	283.02	283.24	284.46	284.39	290.72	291.62	291.89	292.96	294.98	295.26	296.50	297.53
G 40.0	279.20	278.85	278.64	279.79	279.76	286.02	287.42	287.65	288.67	289.90	290.61	292.50	293.26
G 41.0	274.33	273.77	274.22	275.18	275.02	281.49	282.73	283.42	283.83	285.93	286.50	287.71	289.03
G 42.0	268.78	268.64	269.07	269.85	270.65	277.17	278.03	278.17	279.62	280.43	281.82	283.79	284.20
G 43.0	264.16	263.56	264.52	264.38	265.30	272.29	272.54	273.57	274.90	275.43	277.23	279.09	279.79
G 44.0	259.62	258.44	259.48	259.28	260.24	266.38	267.78	268.64	269.73	271.31	272.38	273.67	274.83
G 45.0	253.62	253.11	253.67	254.50	255.16	262.00	262.83	263.13	264.29	267.03	267.13	268.88	269.77
G 46.0	247.97	247.62	248.29	249.08	249.43	256.92	257.54	258.18	259.69	261.33	261.92	264.31	264.48
G 47.0	242.38	241.95	242.71	243.34	243.92	251.60	252.36	252.96	254.56	257.19	256.37	258.71	260.00
G 48.0	236.78	236.18	236.41	236.88	238.40	245.77	246.94	248.23	248.74	251.48	251.28	253.63	254.29
G 49.0	230.34	230.10	230.86	231.64	232.82	240.51	241.53	242.28	242.64	245.25	245.77	247.78	249.28
G 50.0	224.99	224.00	224.87	225.69	226.84	234.77	234.77	236.58	237.24	239.65	240.15	242.31	243.63
G 51.0	218.47	217.50	218.83	219.38	220.63	229.01	229.48	230.67	231.52	233.88	234.25	236.69	237.68
G 52.0	211.44	211.32	211.64	212.99	214.52	222.65	223.76	224.67	225.66	228.01	228.77	231.68	231.48
G 53.0	206.11	204.57	205.24	206.69	208.23	216.71	217.52	218.57	219.58	222.68	223.41	225.26	225.59
G 54.0	199.36	197.63	199.24	200.64	202.36	210.37	211.49	212.27	213.41	217.00	216.75	218.53	220.16
G 55.0	191.50	191.07	192.51	193.22	195.01	203.96	204.69	206.58	206.98	210.71	210.42	212.65	214.28
G 56.0	184.41	184.86	185.74	186.20	187.99	197.18	198.75	199.13	200.11	203.38	204.16	205.71	207.31
G 57.0	177.10	177.55	178.57	179.28	181.08	190.15	191.46	192.99	194.61	197.57	197.45	199.93	200.83
G 58.0	169.67	170.15	170.24	172.12	174.05	183.46	184.53	185.91	187.14	190.03	190.46	193.26	193.98
G 59.0	162.49	161.82	163.49	165.47	167.54	177.07	177.38	178.31	179.59	182.81	183.64	186.01	187.11
G 60.0	155.35	154.65	155.87	158.06	158.97	169.88	170.08	171.05	172.46	176.33	176.45	178.92	180.51
G 61.0	147.25	146.08	147.97	149.34	151.69	161.92	162.50	163.88	165.11	168.45	168.82	171.65	172.45
G 62.0	138.60	137.78	140.33	141.73	143.15	153.92	154.70	156.41	157.69	160.68	161.33	164.17	165.00
G 63.0	124.30	122.99											

Luminaire			Measurem.			Source				
Code	247643.138		Code	CL2303/19-20I		Code	1006B/CL2303/19-20L			
Name	247643.138 JOY 2.0 24.5W 700mA 4K IP66		Name	247643.138 JOY 2.0 24.5W 700mA 4K IP66		Number	1			
Line	OXL		Date	15-11-2019		Position				
Luminaire Flux	3077.49 lm	Luminaire Power	26.60 W	Efficacy	115.70 lm/W	Efficiency	100.00%			
Sources Flux	3077.49 lm	Maximum value	375.63 cd/klm	Position	C=340.00 G=2.00	CG	Asymmetrical			
Luminous Intensity Table cd/klm Table 3/6										
	C 260.00	C 270.00	C 280.00	C 290.00	C 300.00	C 310.00	C 320.00	C 330.00	C 340.00	C 350.00
G 0.0	375.31	375.31	375.31	375.31	375.31	375.31	375.31	375.31	375.31	375.31
G 1.0	375.15	375.44	375.47	375.41	375.14	375.40	375.44	375.41	375.47	375.48
G 2.0	375.33	375.46	375.44	375.43	375.12	375.61	375.41	375.41	375.63	375.44
G 3.0	375.36	375.46	375.44	375.46	375.16	375.52	375.19	375.35	375.49	375.33
G 4.0	374.88	375.16	375.36	375.27	374.97	375.46	374.95	375.19	375.37	375.20
G 5.0	374.61	374.91	375.01	375.01	374.65	375.11	374.69	374.98	375.15	374.93
G 6.0	374.26	374.46	374.77	374.62	374.21	374.79	374.38	374.48	374.78	374.39
G 7.0	373.73	373.96	374.13	374.13	373.78	373.90	373.92	374.02	374.17	373.91
G 8.0	373.01	373.38	373.53	373.53	373.31	373.56	373.39	373.50	373.52	373.34
G 9.0	372.29	372.59	372.74	372.81	372.72	373.01	372.72	372.75	372.80	372.59
G 10.0	371.39	371.73	371.93	371.96	371.74	372.17	371.81	371.92	371.93	371.61
G 11.0	370.45	370.84	371.08	371.06	370.97	371.04	370.82	371.07	371.06	370.69
G 12.0	369.46	369.94	370.01	370.08	369.85	370.00	369.67	370.02	370.03	369.80
G 13.0	368.34	368.80	368.88	368.89	368.74	369.05	368.60	368.94	368.97	368.59
G 14.0	366.95	367.33	367.65	367.73	367.58	367.95	367.48	367.85	367.63	367.26
G 15.0	365.59	365.91	366.31	366.57	366.28	366.45	366.16	366.31	366.27	365.85
G 16.0	363.93	364.38	364.72	365.09	364.86	365.17	364.71	364.87	364.82	364.58
G 17.0	362.38	362.85	363.13	363.65	363.35	363.25	363.30	363.31	363.23	363.11
G 18.0	360.66	361.03	361.56	361.90	361.64	361.89	361.75	361.91	361.59	361.20
G 19.0	358.68	359.37	359.94	359.99	359.97	360.22	359.94	360.19	359.78	359.69
G 20.0	356.79	357.41	358.12	358.12	358.03	358.50	358.27	358.54	358.11	357.90
G 21.0	354.63	355.19	356.08	356.30	355.84	356.62	356.16	356.27	355.89	355.93
G 22.0	352.63	353.05	353.76	354.29	353.94	354.61	354.07	353.86	353.83	353.77
G 23.0	350.38	351.02	351.42	351.95	352.04	352.32	351.80	351.82	351.74	351.56
G 24.0	348.06	348.52	349.35	349.75	349.64	350.07	349.59	349.55	349.75	349.00
G 25.0	345.79	346.30	347.13	347.26	347.30	347.42	347.29	347.16	347.11	346.79
G 26.0	343.18	343.80	344.67	344.79	344.82	344.81	344.95	344.95	344.85	344.16
G 27.0	340.37	341.14	341.58	342.02	342.41	342.41	342.47	342.49	342.01	341.27
G 28.0	337.47	338.42	339.11	339.37	339.43	339.71	339.73	339.41	339.52	338.83
G 29.0	334.95	335.13	336.10	336.62	336.45	337.08	336.67	336.24	336.59	336.09
G 30.0	332.01	332.38	333.25	333.69	333.78	333.81	333.95	333.60	333.67	332.86
G 31.0	328.73	329.33	330.47	330.62	330.68	331.17	330.82	330.80	330.69	329.78
G 32.0	325.43	325.91	327.28	327.46	327.70	328.04	327.65	327.36	327.51	326.51
G 33.0	322.17	322.62	323.52	324.09	324.68	324.46	324.84	324.01	324.37	323.30
G 34.0	318.70	319.23	320.42	320.54	320.99	321.10	321.11	320.97	320.41	320.13
G 35.0	315.41	315.53	317.03	317.11	317.36	317.75	317.57	317.14	316.82	316.31
G 36.0	311.42	311.74	312.67	313.83	313.96	313.87	313.98	313.50	313.66	312.58
G 37.0	307.28	308.38	309.26	309.85	310.29	310.14	310.52	310.22	309.45	309.20
G 38.0	303.76	303.89	305.37	306.45	306.60	306.35	306.66	306.31	305.71	304.93
G 39.0	299.66	299.95	301.37	302.15	302.22	302.72	302.36	302.11	301.58	301.34
G 40.0	295.31	296.20	297.33	297.45	298.60	298.03	298.03	298.27	298.01	297.28
G 41.0	291.07	291.81	292.83	293.11	294.14	293.41	293.97	293.93	293.43	292.78
G 42.0	286.64	287.26	288.44	288.99	289.31	289.54	290.11	289.36	289.08	288.48
G 43.0	281.93	282.53	283.52	284.55	285.30	285.16	285.26	285.12	284.83	283.33
G 44.0	276.58	277.76	279.25	279.77	281.33	279.95	280.96	280.21	280.18	278.85
G 45.0	272.14	272.95	274.38	274.89	275.96	276.12	276.05	275.37	275.60	274.57
G 46.0	267.22	267.85	269.41	270.02	271.04	270.59	271.28	271.03	270.48	269.45
G 47.0	261.88	262.79	264.54	264.74	267.07	265.77	266.39	265.57	265.52	264.40
G 48.0	256.23	257.71	259.79	259.62	261.42	260.47	261.04	260.82	260.99	259.34
G 49.0	251.39	252.34	253.90	254.20	255.46	255.66	255.76	255.43	255.78	254.70
G 50.0	245.90	246.89	248.43	249.02	250.70	250.23	250.50	250.21	249.81	248.12
G 51.0	240.35	241.28	242.89	242.98	245.46	244.18	244.92	244.79	244.26	243.14
G 52.0	234.93	235.13	236.91	237.14	239.23	238.78	239.32	239.10	238.52	237.86
G 53.0	228.73	229.47	230.92	231.29	232.54	232.95	233.53	233.24	232.73	232.22
G 54.0	222.49	223.80	224.98	225.03	226.86	226.99	226.90	227.21	226.85	226.16
G 55.0	216.42	216.72	219.49	218.76	221.01	220.91	221.40	221.13	220.73	219.79
G 56.0	210.61	209.88	212.62	212.13	214.52	214.12	215.17	214.91	215.10	213.66
G 57.0	203.29	204.40	206.20	204.90	208.67	206.91	208.36	208.39	207.95	207.46
G 58.0	197.21	197.59	199.47	198.87	202.12	200.90	201.94	202.55	201.76	201.07
G 59.0	190.20	191.06	191.68	191.36	194.00	194.21	195.83	195.30	195.37	194.02
G 60.0	183.24	183.37	184.54	184.89	187.03	186.86	188.49	188.66	188.31	186.40
G 61.0	175.72	175.93	176.87	176.82	179.49	180.34	181.40	181.50	181.88	179.93
G 62.0	168.26	168.23	169.59	169.37	171.80	173.00	174.28	173.77	173.97	172.71
G 63.0	159.95	160.02	161.36	160.64	164.72	164.29	165.97	166.10	165.74	164.43
G 64.0	147.98	149.16	149.87	148.30	152.98	153.86	155.39	155.84	155.58	154.55
G 65.0	133.61	134.96	137.14	135.91	138.87	140.50	142.07	142.57	142.42	141.22
G 66.0	115.83	119.31	119.02	119.33	123.46	125.21	127.06	127.82	126.74	125.99
G 67.0	100.66	101.91	102.67	103.18	108.09	109.42	109.53	111.87	108.18	110.54
G 68.0	85.15	85.89	87.33	87.65	91.87	92.05	92.36	93.59	93.20	93.70
G 69.0	66.85	69.90	69.61	69.57	75.45	76.29	78.12	78.12	75.60	76.98
G 70.0	50.58	54.41	53.76	55.03	59.73	60.52	61.67	59.52	58.79	58.66
G 71.0	37.61	40.59	40.93	41.31	44.43	45.89	45.04	44.27	42.97	42.99
G 72.0	24.71	26.03	27.44	26.72	31.02	32.21	31.25	30.90	29.28	30.14

Luminaire				Measurem.				Source			
Code	247643.138			Code	CL2303/19-20I			Code	1006B/CL2303/19-20L		
Name	247643.138 JOY 2.0 24.5W 700mA 4K IP66			Name	247643.138 JOY 2.0 24.5W 700mA 4K IP66			Number	1		
Line	OXL			Date	15-11-2019			Position			

Luminaire Flux	3077.49 lm	Luminaire Power	26.60 W	Efficacy	115.70 lm/W	Efficiency	100.00%
Sources Flux	3077.49 lm	Maximum value	375.63 cd/klm	Position	C=340.00 G=2.00	CG	Asymmetrical

Luminous Intensity Table cd/klm Table 4/6

	C 0.00	C 10.00	C 20.00	C 30.00	C 40.00	C 50.00	C 60.00	C 70.00	C 80.00	C 90.00	C 100.00	C 110.00	C 120.00
G 73.0	9.79	9.27	8.77	8.32	7.95	7.51	6.92	6.54	6.05	5.82	5.56	5.54	5.88
G 74.0	7.93	7.43	7.45	7.24	6.94	6.35	5.90	5.26	4.98	4.69	4.68	4.62	4.93
G 75.0	6.71	6.49	6.52	6.10	5.84	5.41	4.96	4.39	4.09	3.92	3.78	3.75	4.18
G 76.0	5.97	5.58	5.62	5.23	4.94	4.70	4.03	3.67	3.37	3.19	3.08	3.15	3.53
G 77.0	5.10	4.82	4.79	4.46	4.29	3.87	3.45	3.07	2.80	2.63	2.52	2.66	2.95
G 78.0	4.46	4.21	4.17	3.93	3.61	3.35	2.95	2.56	2.29	2.12	2.03	2.14	2.48
G 79.0	3.92	3.67	3.60	3.35	3.13	2.83	2.48	2.09	1.80	1.68	1.58	1.68	2.01
G 80.0	3.32	3.11	3.11	2.90	2.73	2.40	2.06	1.69	1.34	1.15	1.11	1.25	1.59
G 81.0	2.79	2.68	2.65	2.47	2.30	1.95	1.64	1.21	0.92	0.83	0.80	0.84	1.12
G 82.0	2.33	2.24	2.19	2.05	1.88	1.54	1.20	0.81	0.67	0.65	0.59	0.62	0.75
G 83.0	1.93	1.77	1.83	1.61	1.52	1.13	0.76	0.57	0.49	0.47	0.42	0.42	0.48
G 84.0	1.52	1.40	1.40	1.26	1.13	0.76	0.49	0.39	0.32	0.27	0.26	0.27	0.30
G 85.0	1.05	1.00	1.02	0.91	0.70	0.40	0.30	0.22	0.20	0.17	0.15	0.14	0.16
G 86.0	0.64	0.58	0.64	0.57	0.38	0.22	0.17	0.13	0.11	0.09	0.08	0.07	0.07
G 87.0	0.26	0.23	0.20	0.22	0.15	0.11	0.08	0.07	0.06	0.05	0.05	0.05	0.05
G 88.0	0.13	0.10	0.09	0.08	0.07	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.05
G 89.0	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
G 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				Measurem.				Source			
Code	247643.138			Code	CL2303/19-20I			Code	1006B/CL2303/19-20L		
Name	247643.138 JOY 2.0 24.5W 700mA 4K IP66			Name	247643.138 JOY 2.0 24.5W 700mA 4K IP66			Number	1		
Line	OXL			Date	15-11-2019			Position			

Luminaire Flux	3077.49 lm	Luminaire Power	26.60 W	Efficacy	115.70 lm/W	Efficiency	100.00%
Sources Flux	3077.49 lm	Maximum value	375.63 cd/klm	Position	C=340.00 G=2.00	CG	Asymmetrical

Luminous Intensity Table cd/klm Table 5/6

	C 130.00	C 140.00	C 150.00	C 160.00	C 170.00	C 180.00	C 190.00	C 200.00	C 210.00	C 220.00	C 230.00	C 240.00	C 250.00
G 73.0	6.18	6.51	6.30	6.31	6.14	7.50	8.04	8.22	8.42	9.54	9.65	10.72	11.95
G 74.0	5.22	5.46	5.37	5.46	5.25	6.30	6.75	6.83	7.16	7.62	7.55	7.80	7.79
G 75.0	4.45	4.66	4.63	4.67	4.54	5.47	5.75	5.83	6.14	6.28	6.44	6.61	6.61
G 76.0	3.75	3.95	3.92	3.97	3.84	4.67	4.87	4.97	5.28	5.45	5.49	5.43	5.66
G 77.0	3.16	3.41	3.35	3.43	3.32	3.97	4.22	4.28	4.56	4.66	4.65	4.56	4.65
G 78.0	2.68	2.94	2.94	2.95	2.89	3.49	3.70	3.74	3.98	4.08	4.03	3.95	3.88
G 79.0	2.29	2.48	2.50	2.52	2.47	2.97	3.17	3.24	3.39	3.53	3.45	3.37	3.33
G 80.0	1.86	2.05	2.06	2.11	2.05	2.50	2.72	2.73	2.94	3.00	2.95	2.83	2.74
G 81.0	1.43	1.65	1.67	1.71	1.68	2.12	2.28	2.32	2.50	2.54	2.48	2.27	2.23
G 82.0	1.00	1.26	1.33	1.33	1.29	1.71	1.87	1.90	2.06	2.10	1.98	1.79	1.73
G 83.0	0.62	0.89	0.94	0.96	0.88	1.30	1.43	1.51	1.68	1.65	1.57	1.30	1.16
G 84.0	0.35	0.51	0.58	0.62	0.44	0.91	1.07	1.16	1.27	1.19	1.13	0.85	0.75
G 85.0	0.16	0.23	0.23	0.23	0.21	0.47	0.54	0.72	0.84	0.87	0.67	0.52	0.52
G 86.0	0.08	0.08	0.08	0.08	0.08	0.23	0.25	0.29	0.41	0.45	0.36	0.34	0.34
G 87.0	0.05	0.05	0.05	0.05	0.05	0.11	0.12	0.13	0.15	0.19	0.18	0.19	0.21
G 88.0	0.05	0.05	0.05	0.05	0.04	0.06	0.07	0.07	0.07	0.09	0.10	0.12	0.12
G 89.0	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.07	0.07	0.08	0.08
G 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		Measurem.		Source	
Code	247643.138	Code	CL2303/19-20I	Code	1006B/CL2303/19-20L
Name	247643.138 JOY 2.0 24.5W 700mA 4K IP66	Name	247643.138 JOY 2.0 24.5W 700mA 4K IP66	Number	1
Line	OXL	Date	15-11-2019	Position	

Luminaire Flux	3077.49 lm	Luminaire Power	26.60 W	Efficacy	115.70 lm/W	Efficiency	100.00%
Sources Flux	3077.49 lm	Maximum value	375.63 cd/klm	Position	C=340.00 G=2.00	CG	Asymmetrical

Luminous Intensity Table cd/klm Table 6/6

	C 260.00	C 270.00	C 280.00	C 290.00	C 300.00	C 310.00	C 320.00	C 330.00	C 340.00	C 350.00
G 73.0	14.34	15.48	17.03	17.38	19.74	19.74	18.85	19.82	17.98	17.63
G 74.0	8.07	8.92	9.56	10.58	11.30	11.42	11.27	11.41	10.66	11.06
G 75.0	6.82	7.08	7.25	7.82	8.14	8.31	8.21	8.48	8.25	8.19
G 76.0	5.62	5.96	6.15	6.57	6.99	7.24	7.21	7.37	7.02	7.07
G 77.0	4.71	5.07	5.12	5.43	5.91	6.26	6.22	6.35	6.06	6.10
G 78.0	3.87	4.10	4.28	4.46	4.89	5.40	5.32	5.55	5.24	5.31
G 79.0	3.28	3.40	3.56	3.87	4.17	4.38	4.60	4.83	4.56	4.60
G 80.0	2.71	2.87	3.04	3.27	3.59	3.77	3.92	4.14	4.02	3.99
G 81.0	2.17	2.32	2.47	2.73	3.00	3.25	3.40	3.53	3.41	3.40
G 82.0	1.65	1.73	1.94	2.19	2.50	2.81	2.89	3.06	2.93	2.92
G 83.0	1.08	1.21	1.37	1.72	2.04	2.30	2.43	2.59	2.47	2.46
G 84.0	0.72	0.84	0.90	1.19	1.53	1.85	2.00	2.14	2.03	2.05
G 85.0	0.52	0.58	0.64	0.78	1.04	1.45	1.56	1.71	1.61	1.61
G 86.0	0.36	0.39	0.46	0.51	0.67	0.91	1.17	1.30	1.24	1.18
G 87.0	0.23	0.26	0.30	0.31	0.39	0.54	0.83	0.90	0.81	0.69
G 88.0	0.15	0.16	0.18	0.20	0.24	0.29	0.44	0.56	0.36	0.30
G 89.0	0.09	0.10	0.11	0.13	0.14	0.17	0.18	0.21	0.20	0.18
G 90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Luminaire		Measurem.		Source	
Code	247643.138	Code	CL2303/19-20I	Code	1006B/CL2303/19-20L
Name	247643.138 JOY 2.0 24.5W 700mA 4K IP66	Name	247643.138 JOY 2.0 24.5W 700mA 4K IP66	Number	1
Line	OXL	Date	15-11-2019	Position	
Luminaire Flux	3077.49 lm	Luminaire Power	26.60 W	Efficacy	115.70 lm/W
Sources Flux	3077.49 lm	Maximum value	375.63 cd/klm	Position	C=340.00 G=2.00
				CG	Asymmetrical

Spectral Data

Std.: EN 13032 4 2015

CIE1931 x = 0.384511 y = 0.384809
 CIE1960 u = 0.224575 v = 0.337124
 CIE1976 u' = 0.224575 v' = 0.505686
 D(u,v) 0.00255
 Delta(u',v') 0.00291

Color rendering index (CRI)
 Color Rendering Components

CCT = 3951 K

CRI8(Ra) 84.7

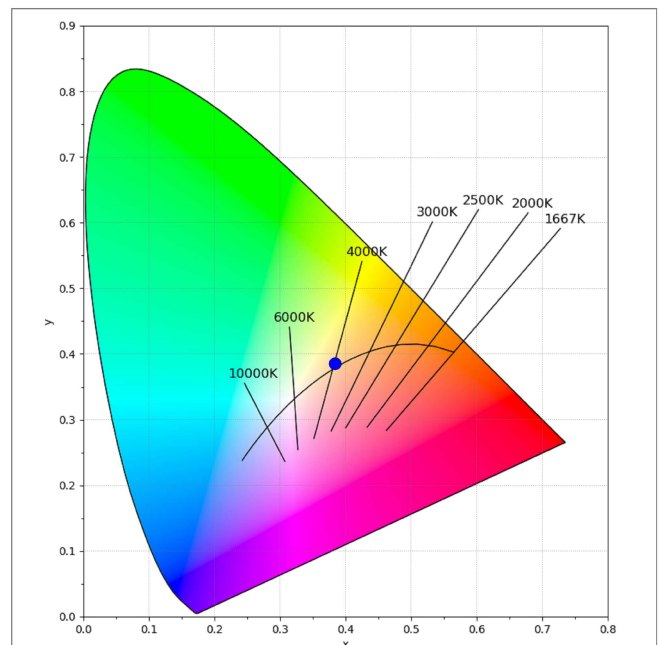
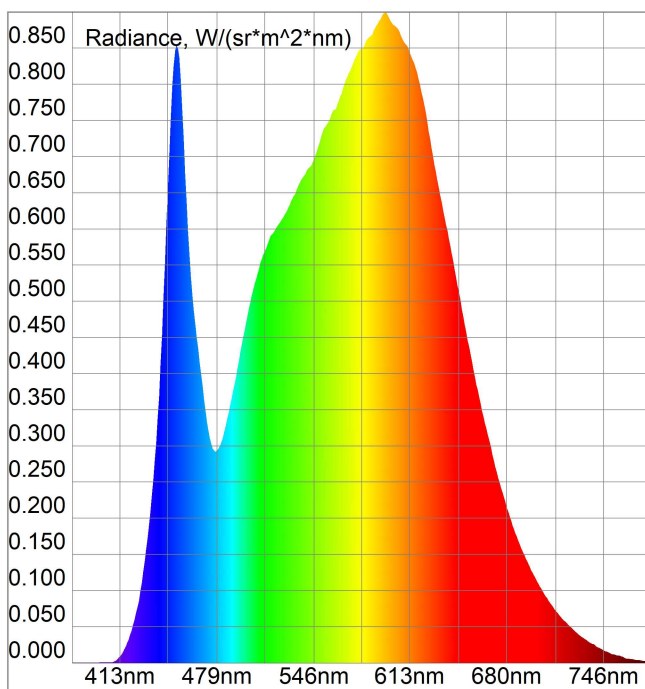
R 1: 82.8 R 2: 90.8 R 3: 96.6 R 4: 83.3 R 5: 83.0
 R 6: 87.6 R 7: 87.0 R 8: 66.2 R 9: 13.6 R10: 78.3
 R11: 82.8 R12: 65.7 R13: 84.9 R14: 98.4 R15: 76.1

CRI15(Rav) 78.5

Spectral Distribution

l(nm)	Radiance, W/(sr*m^2*nm)	l(nm)	Radiance, W/(sr*m^2*nm)	l(nm)	Radiance, W/(sr*m^2*nm)
380.0	0.000140	386.0	0.000264	392.0	0.000220
398.0	0.000397	404.0	0.000531	410.0	0.003075
416.0	0.018646	422.0	0.051975	428.0	0.111194
434.0	0.210588	440.0	0.368664	446.0	0.654189
452.0	0.854685	458.0	0.676587	464.0	0.487028
470.0	0.381777	476.0	0.302279	482.0	0.300249
488.0	0.345257	494.0	0.406193	500.0	0.470081
506.0	0.524055	512.0	0.564444	518.0	0.592759
524.0	0.610776	530.0	0.632450	536.0	0.658974
542.0	0.680700	548.0	0.702744	554.0	0.739321
560.0	0.763758	566.0	0.787369	572.0	0.819230
578.0	0.846473	584.0	0.862949	590.0	0.881336
596.0	0.898975	602.0	0.881989	608.0	0.862468
614.0	0.838614	620.0	0.799977	626.0	0.735885
632.0	0.667850	638.0	0.606677	644.0	0.544745
650.0	0.477900	656.0	0.416532	662.0	0.357924
668.0	0.307409	674.0	0.256195	680.0	0.214844
686.0	0.179264	692.0	0.149463	698.0	0.123802
704.0	0.102172	710.0	0.082859	716.0	0.066805
722.0	0.053722	728.0	0.042352	734.0	0.032824
740.0	0.025774	746.0	0.018472	752.0	0.012768
758.0	0.009873	764.0	0.005552	770.0	0.003886
776.0	0.002356	782.0	0.001655	788.0	0.001655

Spectrum Graph



Luminaire

Code 247643.138
Name 247643.138 JOY 2.0 24.5W 700mA 4K IP66
Line OXL

Measurem.

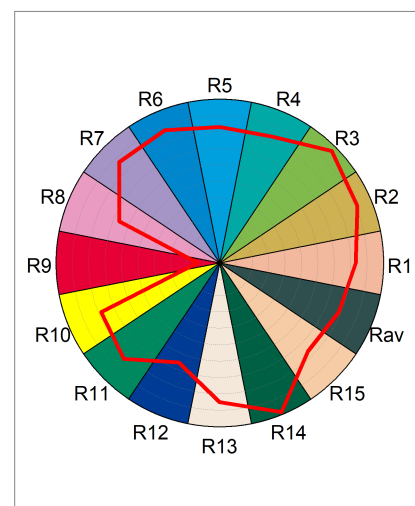
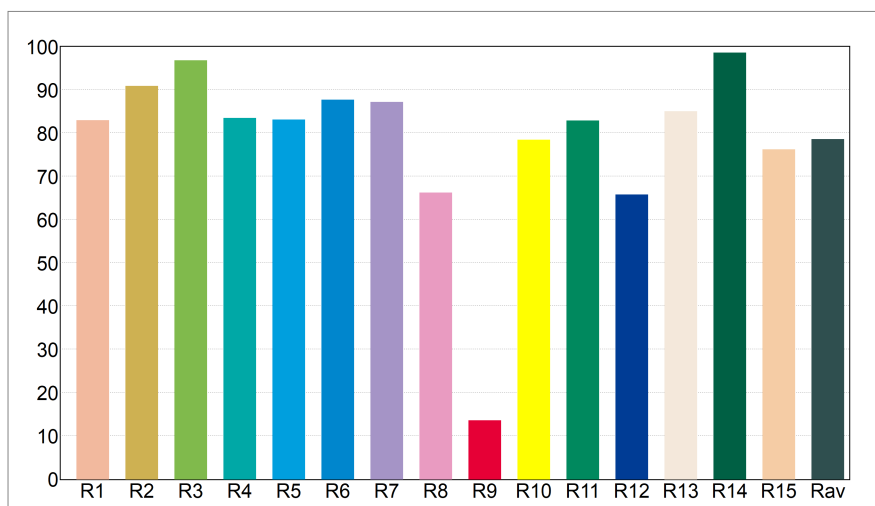
Code CL2303/19-20I
Name 247643.138 JOY 2.0 24.5W 700mA 4K IP66
Date 15-11-2019

Source

Code 1006B/CL2303/19-20L
Number 1
Position

Luminaire Flux	3077.49 lm	Luminaire Power	26.60 W	Efficacy	115.70 lm/W	Efficiency	100.00%
Sources Flux	3077.49 lm	Maximum value	375.63 cd/klm	Position	C=340.00 G=2.00	CG Asymmetrical	

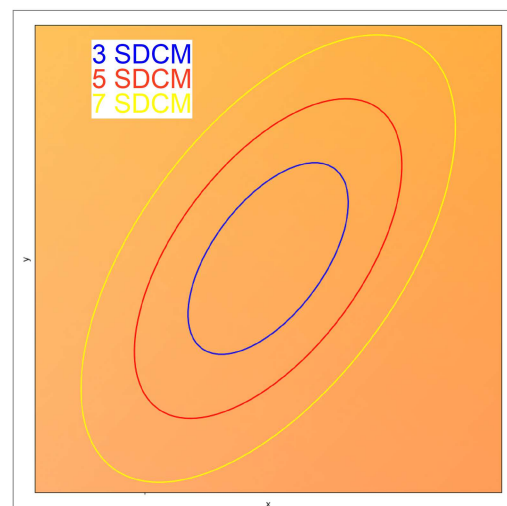
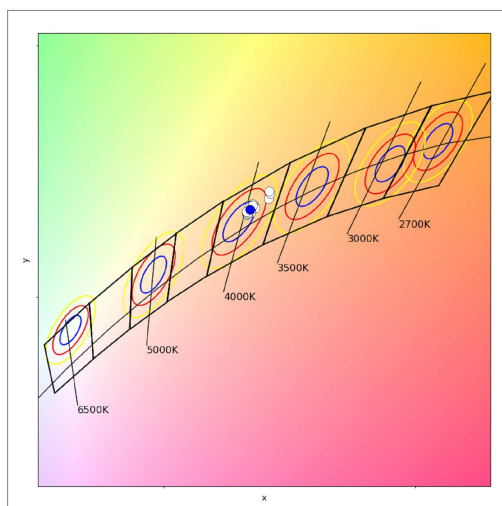
CRI Graphs



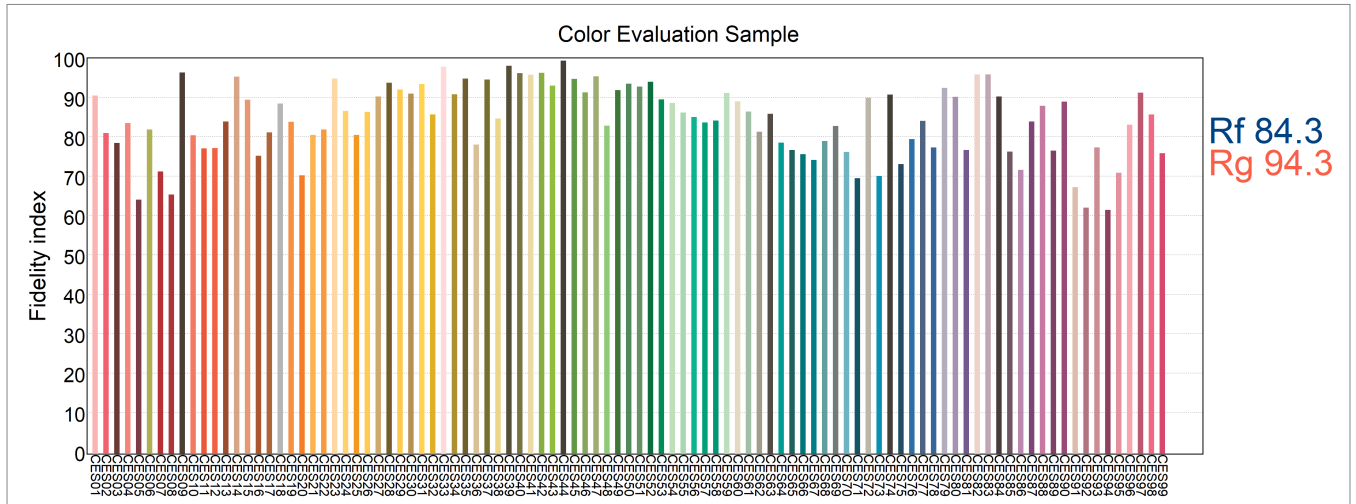
McAdam's Diagram

Analisi di MacAdams
ANSI C78-376

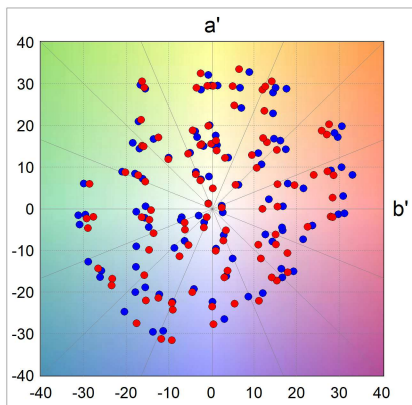
- Step 3: 0 / 32
- Step 5: 0 / 32
- Step 7: 0 / 32
- Step outside: 32 / 32
- Int. Spec. in 4-step: NO
- 95% in 5-step: NO



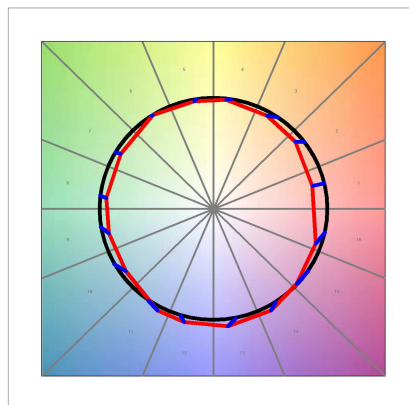
Luminaire			Measurem.			Source	
Code	247643.138		Code	CL2303/19-20I		Code	1006B/CL2303/19-20L
Name	247643.138 JOY 2.0 24.5W 700mA 4K IP66		Name	247643.138 JOY 2.0 24.5W 700mA 4K IP66		Number	1
Line	OXL		Date	15-11-2019		Position	
Luminaire Flux	3077.49 lm	Luminaire Power	26.60 W	Efficacy	115.70 lm/W	Efficiency	100.00%
Sources Flux	3077.49 lm	Maximum value	375.63 cd/klm	Position	C=340.00 G=2.00	CG	Asymmetrical



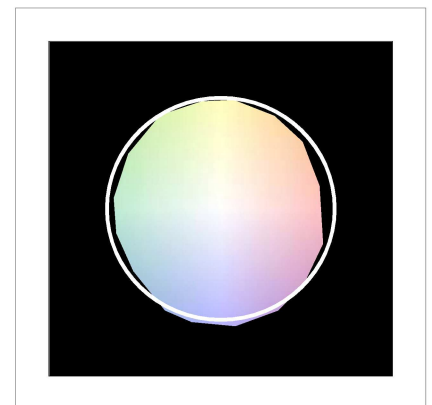
Chromatic Coordinates (a', b') 99 CES



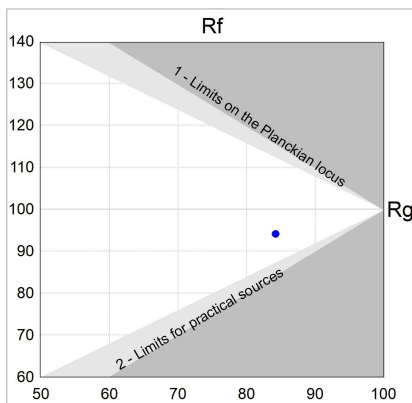
Color Vector Graphic



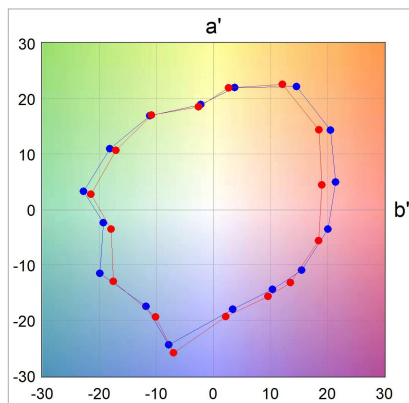
Color Distorsion Graphic



Rg vs Rf Plot



Gamut Polygon



Bin Deviation

