

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: io LED

Report Number: P284114

Luminaire Tested: **LDA2B209727D010 EU2B20WFL559727 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P284114
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-61)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B209727D010 EU2B20WFL559727 2LBAPINSQ1MW
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in Adj SQ PinHole, MW

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1283.2 lumens
Efficiency: N/A
Efficacy: 62.3 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.68
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

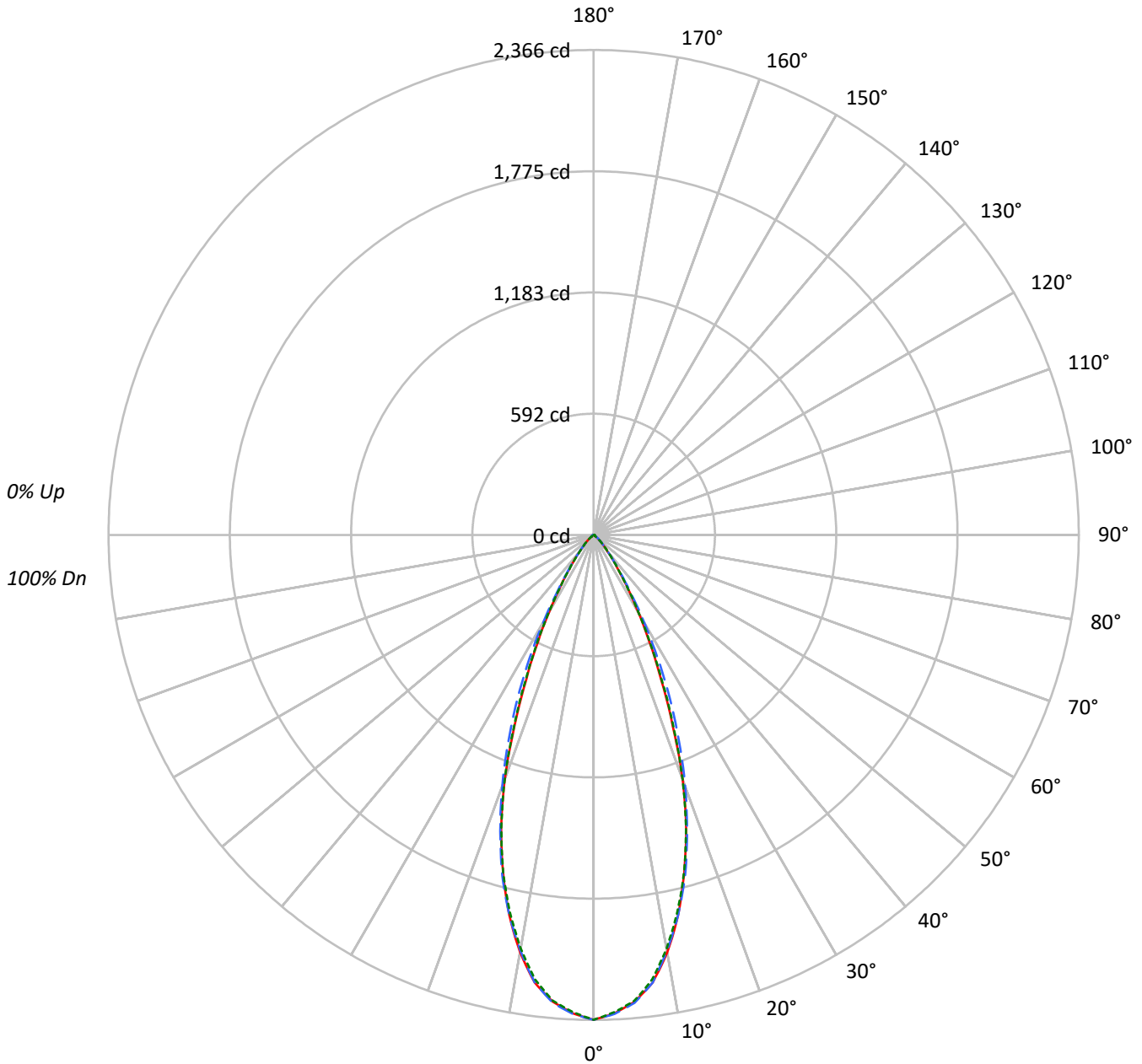
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100	100	100		
	1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94	94	94	94	94	94		
	2	109	104	101	98	107	103	99	96	100	97	94	97	94	92	94	92	90	89	94	92	90	89	89		
	3	104	98	94	90	102	97	93	89	94	91	88	92	89	87	90	87	85	84	90	87	85	84	84		
	4	100	93	88	84	98	92	87	83	90	86	82	88	84	81	86	83	81	79	86	83	81	79	79		
	5	95	88	82	79	94	87	82	78	85	81	78	84	80	77	82	79	76	75	82	79	76	75	75		
	6	91	83	78	74	90	82	77	74	81	77	73	80	76	73	78	75	72	71	78	75	72	71	71		
	7	87	79	74	70	86	78	73	70	77	73	69	76	72	69	75	71	69	67	75	71	69	67	67		
	8	84	75	70	66	83	75	70	66	74	69	66	73	69	66	72	68	65	64	72	68	65	64	64		
	9	81	72	67	63	80	71	66	63	71	66	63	70	66	63	69	65	62	61	69	65	62	61	61		
	10	77	69	64	60	76	68	63	60	68	63	60	67	63	60	66	62	60	58	66	62	60	58	58		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1167146	1167146	1167146
5°	1132084	1134807	1129706
10°	1036262	1032104	1025892
15°	871622	879692	870243
20°	666571	684265	665469
25°	423298	477190	431518
30°	246161	277949	250491
35°	130153	138405	130575
40°	68719	71810	68719
45°	38375	39840	38863
50°	17960	22719	17960
55°	6537	12472	7139
60°	7499	7499	7499
65°	8055	8872	8055
70°	9953	8943	9953
75°	9150	9150	9150
80°	9660	7955	9660
85°	7925	7925	7925



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.2	16.5
10°-20°	470.2	36.6
20°-30°	379.7	29.6
30°-40°	150.1	11.7
40°-50°	46.1	3.6
50°-60°	11.9	0.9
60°-70°	7.2	0.6
70°-80°	5.3	0.4
80°-90°	1.6	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1061.1	82.7
0°-40°	1211.2	94.4
0°-60°	1269.1	98.9
0°-90°	1283.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1283.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2366	2366	2366	2366	2366	
5°	2286	2290	2291	2287	2281	212
15°	1706	1711	1722	1716	1704	469
25°	778	815	877	830	793	362
35°	216	222	230	223	217	145
45°	55	56	57	56	56	45
55°	8	10	14	10	8	10
65°	7	8	8	8	7	7
75°	5	5	5	5	5	5
85°	1	1	1	1	1	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2365.7	2365.7	2365.7	2365.7	2365.7
2.5°	2336.1	2337.5	2339.6	2336.8	2329.9
5°	2285.9	2290.0	2291.4	2286.6	2281.1
7.5°	2203.3	2198.5	2202.6	2194.4	2187.5
10°	2068.5	2062.3	2060.2	2047.8	2047.8
12.5°	1901.9	1899.9	1901.2	1895.0	1885.4
15°	1706.5	1711.3	1722.3	1715.5	1703.8
17.5°	1499.4	1506.3	1515.9	1513.8	1498.0
20°	1269.6	1289.5	1303.3	1290.2	1267.5
22.5°	1008.1	1050.7	1085.8	1058.3	1021.2
25°	777.6	814.7	876.6	829.9	792.7
27.5°	589.7	616.5	673.0	626.9	601.4
30°	432.1	448.6	487.9	457.6	439.7
32.5°	309.0	320.7	337.2	319.3	310.3
35°	216.1	222.3	229.8	222.9	216.8
37.5°	152.1	154.1	159.6	154.1	151.4
40°	106.7	107.3	111.5	108.0	106.7
42.5°	77.1	77.1	79.1	77.8	77.1
45°	55.0	55.7	57.1	56.4	55.7
47.5°	39.2	40.6	40.6	41.3	38.5
50°	23.4	28.9	29.6	28.9	23.4
52.5°	12.4	17.2	21.3	17.2	12.4
55°	7.6	10.3	14.5	10.3	8.3
57.5°	7.6	7.6	9.6	8.3	7.6
60°	7.6	7.6	7.6	7.6	7.6
62.5°	7.6	7.6	7.6	7.6	7.6
65°	6.9	7.6	7.6	7.6	6.9
67.5°	6.9	6.9	6.9	6.9	6.9
70°	6.9	6.9	6.2	6.9	6.9
72.5°	6.2	6.2	5.5	6.2	6.2
75°	4.8	4.8	4.8	4.8	4.8
77.5°	4.1	4.1	4.1	4.1	4.1
80°	3.4	3.4	2.8	3.4	3.4
82.5°	2.1	2.1	2.1	2.1	2.1
85°	1.4	1.4	1.4	1.4	1.4
87.5°	0.7	0.7	0.7	0.7	0.7
90°	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)