

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: P283796

Luminaire Tested: **LDA2B058027D010 EU2B05WFL558027 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283796
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: LDA2B058027D010 EU2B05WFL558027 2LBAPINSQ1MW
Description: PORTFOLIO 2IN ADJ 500 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: 719.6 lumens
Efficiency: N/A
Efficacy: 102.8 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

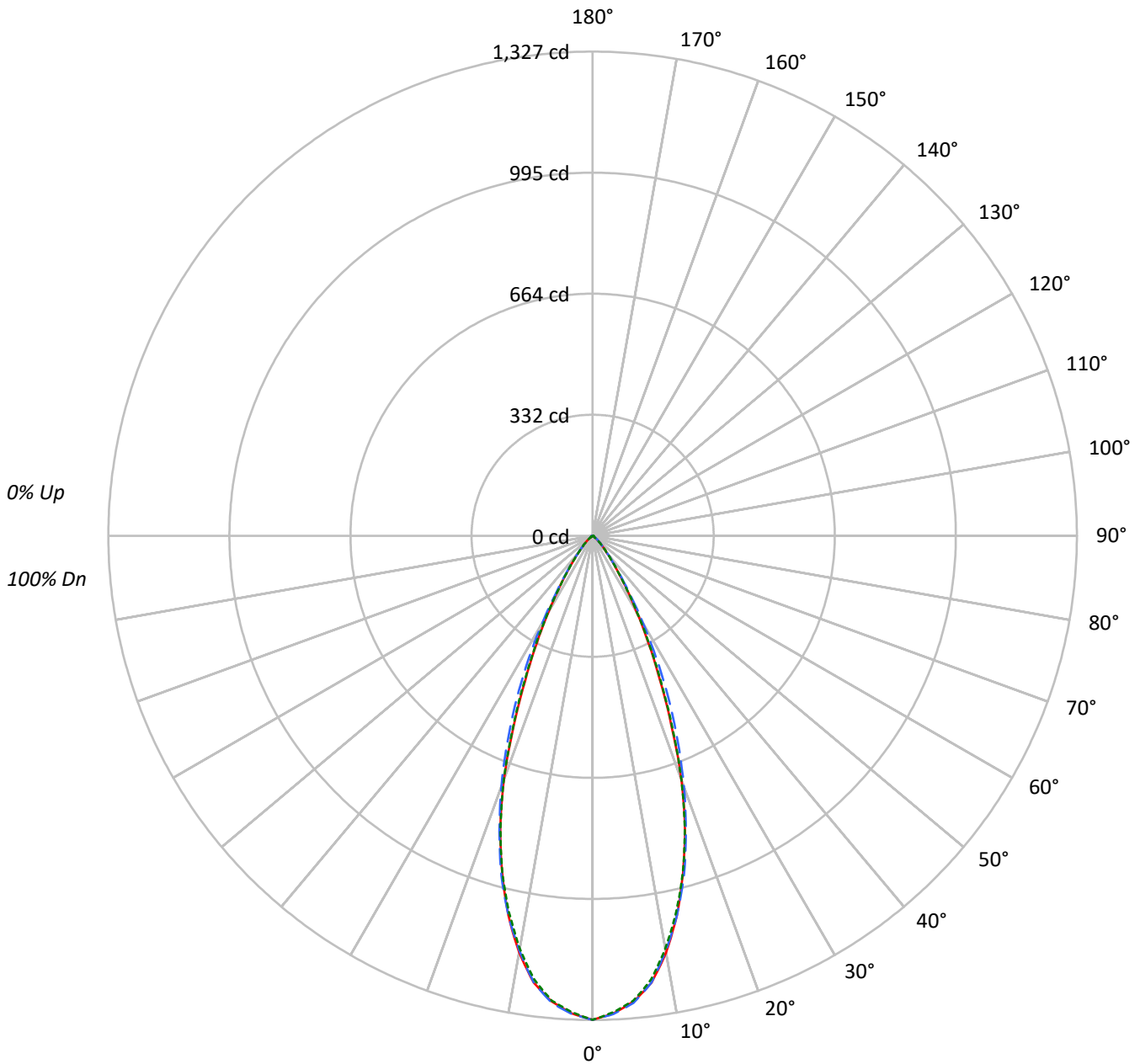
Input Watts (W): 7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	654543	654543	654543
5°	634856	636392	633519
10°	581128	578774	575317
15°	488803	493349	487986
20°	373818	383741	373188
25°	237343	267610	241970
30°	138035	155866	140484
35°	72997	77634	73238
40°	38513	40252	38513
45°	21560	22327	21839
50°	10055	12741	10055
55°	3613	6967	3957
60°	4144	4144	4144
65°	4553	4903	4553
70°	5626	5049	5626
75°	5147	5147	5147
80°	5398	4262	5398
85°	4529	4529	4529



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.4	16.5
10°-20°	263.7	36.6
20°-30°	212.9	29.6
30°-40°	84.2	11.7
40°-50°	25.8	3.6
50°-60°	6.6	0.9
60°-70°	4.0	0.6
70°-80°	3.0	0.4
80°-90°	0.9	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°	595.0	82.7
0°-40°	679.2	94.4
0°-60°	711.7	98.9
0°-90°	719.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	719.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1327	1327	1327	1327	1327	
5°	1282	1284	1285	1282	1279	119
15°	957	960	966	962	955	263
25°	436	457	492	465	444	203
35°	121	125	129	125	122	81
45°	31	31	32	32	31	25
55°	4	6	8	6	5	5
65°	4	4	4	4	4	4
75°	3	3	3	3	3	3
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1326.7	1326.7	1326.7	1326.7	1326.7
2.5°	1310.1	1310.8	1312.0	1310.5	1306.6
5°	1281.9	1284.2	1285.0	1282.3	1279.2
7.5°	1235.6	1232.9	1235.2	1230.6	1226.7
10°	1160.0	1156.5	1155.3	1148.4	1148.4
12.5°	1066.6	1065.4	1066.2	1062.7	1057.3
15°	957.0	959.7	965.9	962.0	955.4
17.5°	840.8	844.7	850.1	848.9	840.1
20°	712.0	723.1	730.9	723.5	710.8
22.5°	565.3	589.2	608.9	593.5	572.6
25°	436.0	456.9	491.6	465.4	444.5
27.5°	330.7	345.8	377.4	351.5	337.3
30°	242.3	251.6	273.6	256.6	246.6
32.5°	173.3	179.8	189.1	179.0	174.0
35°	121.2	124.6	128.9	125.0	121.6
37.5°	85.3	86.4	89.5	86.4	84.9
40°	59.8	60.2	62.5	60.6	59.8
42.5°	43.2	43.2	44.4	43.6	43.2
45°	30.9	31.3	32.0	31.6	31.3
47.5°	22.0	22.8	22.8	23.2	21.6
50°	13.1	16.2	16.6	16.2	13.1
52.5°	6.9	9.6	12.0	9.6	6.9
55°	4.2	5.8	8.1	5.8	4.6
57.5°	4.2	4.2	5.4	4.6	4.2
60°	4.2	4.2	4.2	4.2	4.2
62.5°	4.2	4.2	4.2	4.2	4.2
65°	3.9	4.2	4.2	4.2	3.9
67.5°	3.9	3.9	3.9	3.9	3.9
70°	3.9	3.9	3.5	3.9	3.9
72.5°	3.5	3.5	3.1	3.5	3.5
75°	2.7	2.7	2.7	2.7	2.7
77.5°	2.3	2.3	2.3	2.3	2.3
80°	1.9	1.9	1.5	1.9	1.9
82.5°	1.2	1.2	1.2	1.2	1.2
85°	0.8	0.8	0.8	0.8	0.8
87.5°	0.4	0.4	0.4	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)