

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: P283907

Luminaire Tested: **LDA2B108050D010 EU2B10WFL558050 2LBALPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283907
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: LDA2B108050D010 EU2B10WFL558050 2LBALPINSQ1MW
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in Adj SQ Pinhole w-lens, MW

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 976.5 lumens
Efficiency: N/A
Efficacy: 97.6 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

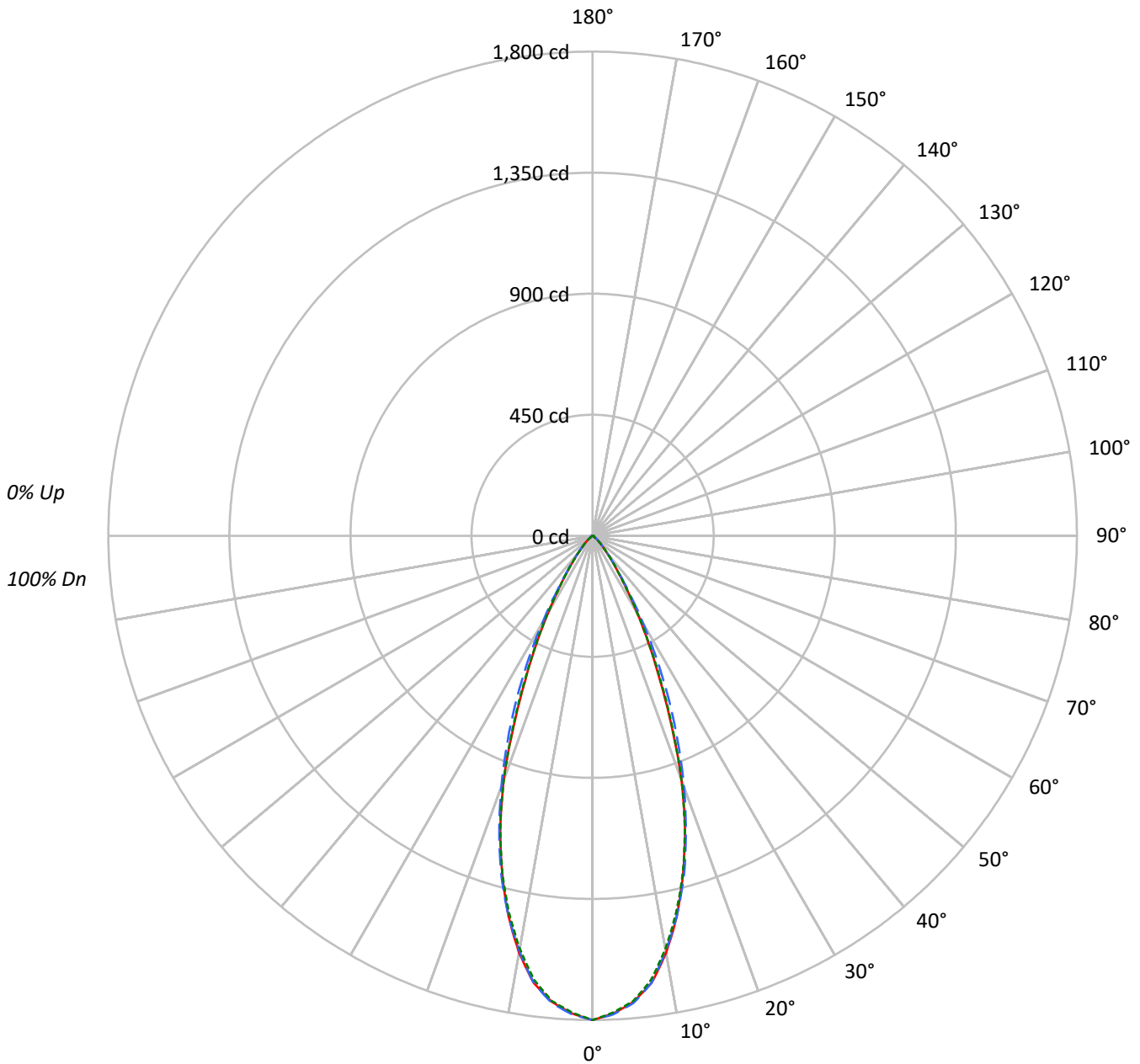
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	888199	888199	888199
5°	861531	863611	859698
10°	788581	785425	780716
15°	663331	669461	662259
20°	507279	520719	506439
25°	322100	363146	328415
30°	187369	211524	190617
35°	99015	105339	99377
40°	52296	54614	52296
45°	29234	30351	29583
50°	13662	17270	13662
55°	4989	9462	5419
60°	5723	5723	5723
65°	6070	6771	6070
70°	7501	6780	7501
75°	7053	7053	7053
80°	7387	5966	7387
85°	5661	5661	5661



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.7	16.5
10°-20°	357.8	36.6
20°-30°	289.0	29.6
30°-40°	114.2	11.7
40°-50°	35.1	3.6
50°-60°	9.0	0.9
60°-70°	5.5	0.6
70°-80°	4.0	0.4
80°-90°	1.2	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°	807.5	82.7
0°-40°	921.7	94.4
0°-60°	965.8	98.9
0°-90°	976.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	976.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1800	1800	1800	1800	1800	
5°	1740	1743	1744	1740	1736	161
15°	1299	1302	1311	1306	1297	357
25°	592	620	667	632	603	275
35°	164	169	175	170	165	110
45°	42	42	44	43	42	34
55°	6	8	11	8	6	7
65°	5	6	6	6	5	5
75°	4	4	4	4	4	4
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°	1800.3	1800.3	1800.3	1800.3	1800.3
2.5°	1777.8	1778.9	1780.5	1778.4	1773.1
5°	1739.6	1742.7	1743.8	1740.1	1735.9
7.5°	1676.8	1673.1	1676.2	1670.0	1664.7
10°	1574.1	1569.4	1567.8	1558.4	1558.4
12.5°	1447.4	1445.8	1446.9	1442.2	1434.8
15°	1298.7	1302.3	1310.7	1305.5	1296.6
17.5°	1141.1	1146.3	1153.6	1152.1	1140.0
20°	966.2	981.3	991.8	981.9	964.6
22.5°	767.2	799.6	826.3	805.4	777.1
25°	591.7	620.0	667.1	631.5	603.3
27.5°	448.8	469.2	512.1	477.1	457.7
30°	328.9	341.4	371.3	348.2	334.6
32.5°	235.1	244.0	256.6	243.0	236.2
35°	164.4	169.1	174.9	169.7	165.0
37.5°	115.7	117.3	121.5	117.3	115.2
40°	81.2	81.7	84.8	82.2	81.2
42.5°	58.7	58.7	60.2	59.2	58.7
45°	41.9	42.4	43.5	42.9	42.4
47.5°	29.8	30.9	30.9	31.4	29.3
50°	17.8	22.0	22.5	22.0	17.8
52.5°	9.4	13.1	16.2	13.1	9.4
55°	5.8	7.9	11.0	7.9	6.3
57.5°	5.8	5.8	7.3	6.3	5.8
60°	5.8	5.8	5.8	5.8	5.8
62.5°	5.8	5.8	5.8	5.8	5.8
65°	5.2	5.8	5.8	5.8	5.2
67.5°	5.2	5.2	5.2	5.2	5.2
70°	5.2	5.2	4.7	5.2	5.2
72.5°	4.7	4.7	4.2	4.7	4.7
75°	3.7	3.7	3.7	3.7	3.7
77.5°	3.1	3.1	3.1	3.1	3.1
80°	2.6	2.6	2.1	2.6	2.6
82.5°	1.6	1.6	1.6	1.6	1.6
85°	1.0	1.0	1.0	1.0	1.0
87.5°	0.5	0.5	0.5	0.5	0.5
90°	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)