

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: P283993

Luminaire Tested: **LDA2B158050D010 EU2B15WFL558050 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283993
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: LDA2B158050D010 EU2B15WFL558050 2LBALPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in Adj SQ Pinhole w-lens, MMS

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1271.8 lumens
Efficiency: N/A
Efficacy: 90.2 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

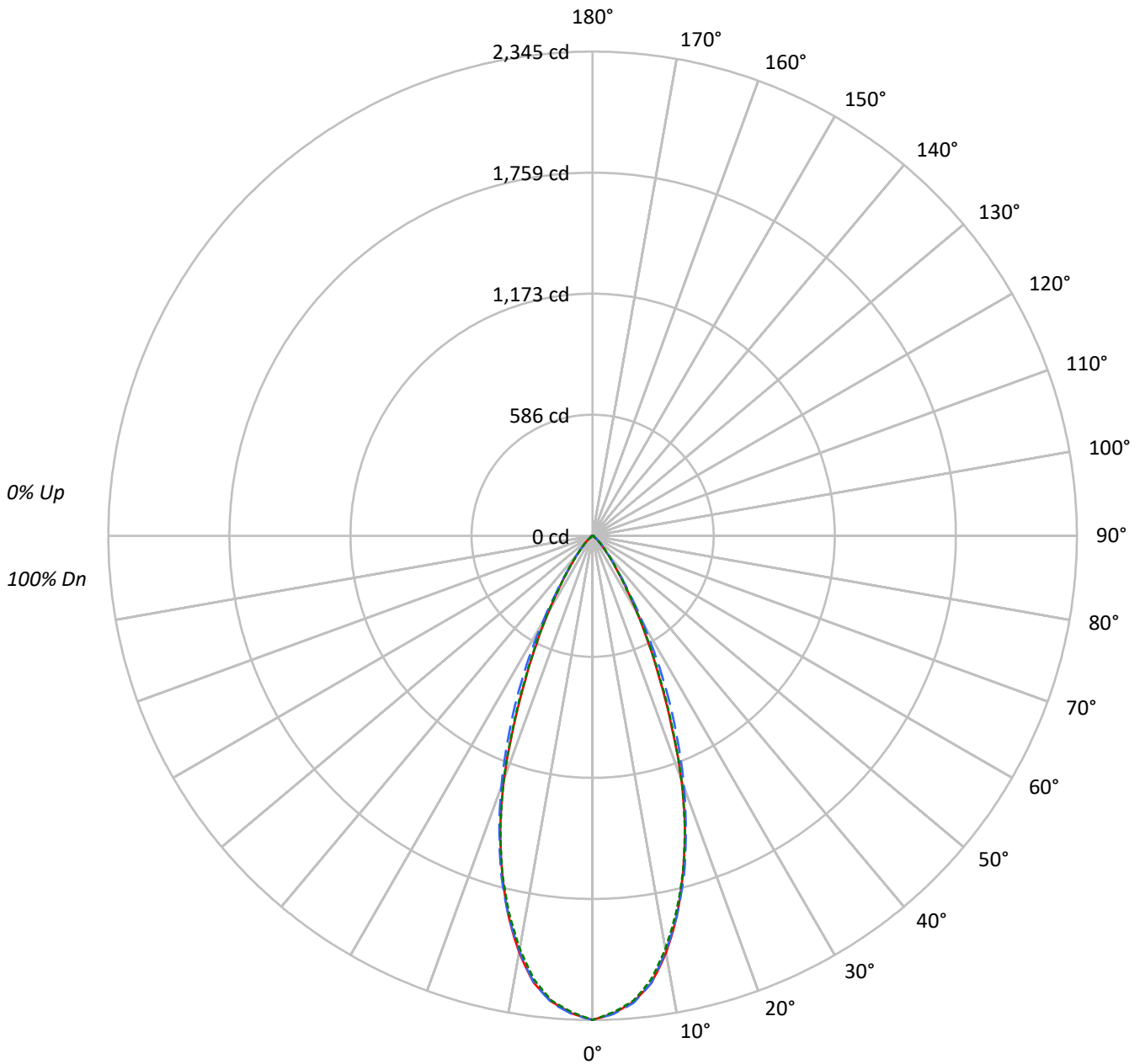
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1156835	1156835	1156835
5°	1122080	1124804	1119702
10°	1027094	1022986	1016824
15°	863909	871928	862530
20°	660691	678227	659588
25°	419542	472998	427707
30°	243996	275500	248269
35°	129009	137200	129371
40°	68075	71166	68075
45°	38095	39491	38514
50°	17807	22489	17807
55°	6451	12300	7053
60°	7400	7400	7400
65°	7938	8755	7938
70°	9809	8799	9809
75°	9150	9150	9150
80°	9660	7671	9660
85°	7925	7925	7925



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.3	16.5
10°-20°	466.0	36.6
20°-30°	376.4	29.6
30°-40°	148.8	11.7
40°-50°	45.7	3.6
50°-60°	11.8	0.9
60°-70°	7.1	0.6
70°-80°	5.2	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°	1051.7	82.7
0°-40°	1200.5	94.4
0°-60°	1257.9	98.9
0°-90°	1271.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1271.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2345	2345	2345	2345	2345	
5°	2266	2270	2271	2266	2261	210
15°	1691	1696	1707	1700	1689	465
25°	771	808	869	822	786	359
35°	214	220	228	221	215	143
45°	55	55	57	56	55	45
55°	8	10	14	10	8	9
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°	2344.8	2344.8	2344.8	2344.8	2344.8
2.5°	2315.5	2316.9	2318.9	2316.2	2309.4
5°	2265.7	2269.8	2271.2	2266.4	2260.9
7.5°	2183.9	2179.1	2183.2	2175.0	2168.2
10°	2050.2	2044.1	2042.0	2029.7	2029.7
12.5°	1885.1	1883.1	1884.5	1878.3	1868.8
15°	1691.4	1696.2	1707.1	1700.3	1688.7
17.5°	1486.1	1493.0	1502.5	1500.5	1484.8
20°	1258.4	1278.1	1291.8	1278.8	1256.3
22.5°	999.2	1041.5	1076.2	1049.0	1012.1
25°	770.7	807.5	868.9	822.5	785.7
27.5°	584.5	611.1	667.0	621.3	596.1
30°	428.3	444.7	483.6	453.6	435.8
32.5°	306.2	317.8	334.2	316.5	307.6
35°	214.2	220.3	227.8	221.0	214.8
37.5°	150.7	152.8	158.2	152.8	150.0
40°	105.7	106.4	110.5	107.1	105.7
42.5°	76.4	76.4	78.4	77.1	76.4
45°	54.6	55.2	56.6	55.9	55.2
47.5°	38.9	40.2	40.2	40.9	38.2
50°	23.2	28.6	29.3	28.6	23.2
52.5°	12.3	17.1	21.1	17.1	12.3
55°	7.5	10.2	14.3	10.2	8.2
57.5°	7.5	7.5	9.5	8.2	7.5
60°	7.5	7.5	7.5	7.5	7.5
62.5°	7.5	7.5	7.5	7.5	7.5
65°	6.8	7.5	7.5	7.5	6.8
67.5°	6.8	6.8	6.8	6.8	6.8
70°	6.8	6.8	6.1	6.8	6.8
72.5°	6.1	6.1	5.5	6.1	6.1
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	2.7	3.4	3.4
82.5°	2.0	2.0	2.0	2.0	2.0
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)