

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: P284010

Luminaire Tested: **LDA2B159030D010 EU2B15WFL559030 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P284010
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: LDA2B159030D010 EU2B15WFL559030 2LBALPINSQ1MB
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in Adj SQ Pinhole w-lens, MB

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 964.5 lumens
Efficiency: N/A
Efficacy: 68.4 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

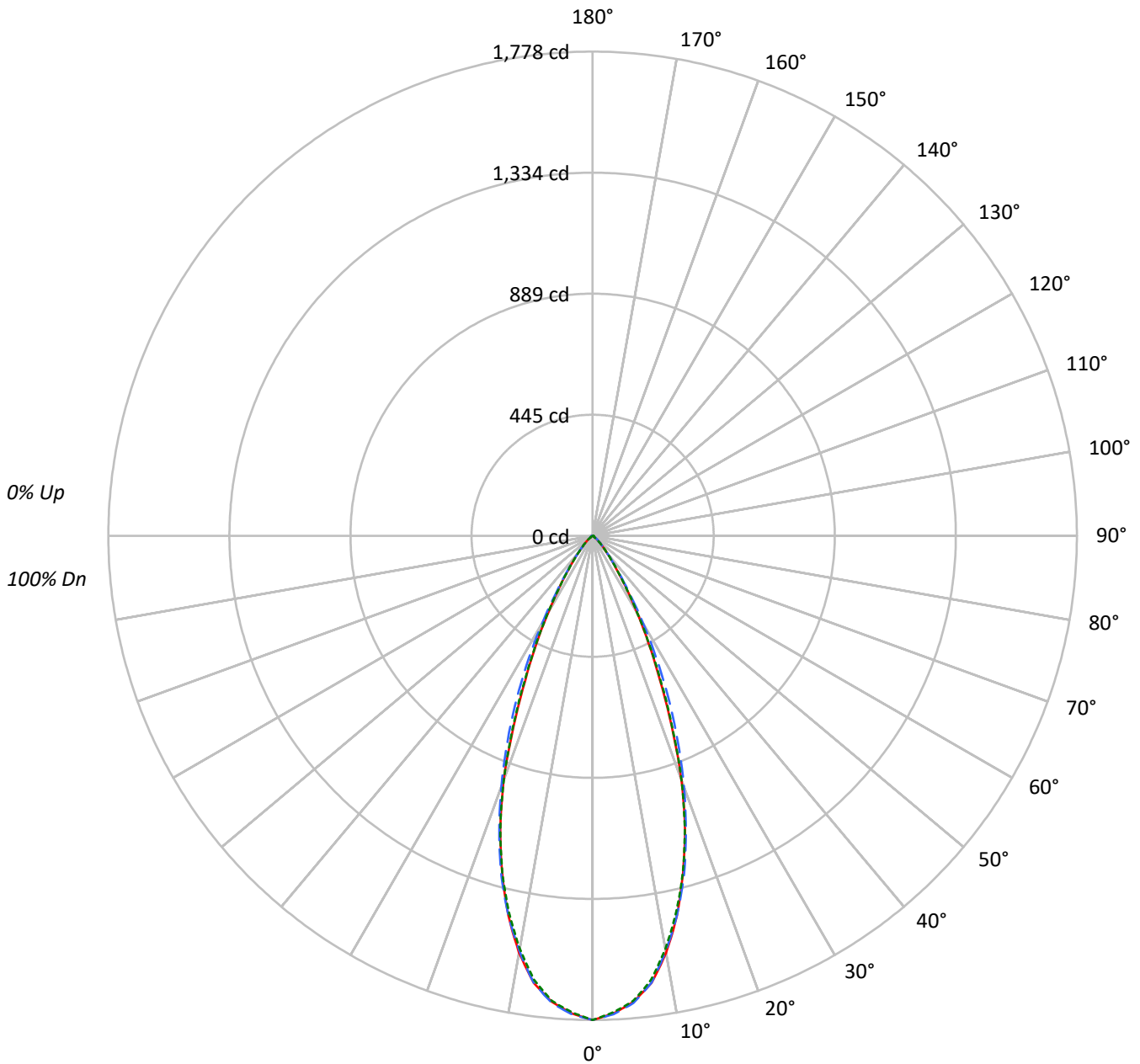
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	877296	877296	877296
5°	850932	853012	849149
10°	778912	775806	771147
15°	655159	661237	654138
20°	501031	514314	500191
25°	318181	358682	324332
30°	185034	208904	188281
35°	97811	104075	98112
40°	51652	53970	51652
45°	28886	29932	29234
50°	13509	17039	13509
55°	4903	9376	5333
60°	5624	5624	5624
65°	6070	6654	6070
70°	7501	6780	7501
75°	6862	6862	6862
80°	7387	5966	7387
85°	5661	5661	5661



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.7	16.5
10°-20°	353.4	36.6
20°-30°	285.4	29.6
30°-40°	112.8	11.7
40°-50°	34.6	3.6
50°-60°	8.9	0.9
60°-70°	5.4	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°	797.6	82.7
0°-40°	910.4	94.4
0°-60°	954.0	98.9
0°-90°	964.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	964.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1778	1778	1778	1778	1778	
5°	1718	1721	1722	1719	1715	159
15°	1283	1286	1295	1290	1281	352
25°	584	612	659	624	596	272
35°	162	167	173	168	163	109
45°	41	42	43	42	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°	1778.2	1778.2	1778.2	1778.2	1778.2
2.5°	1756.0	1757.0	1758.6	1756.5	1751.3
5°	1718.2	1721.3	1722.4	1718.8	1714.6
7.5°	1656.2	1652.5	1655.6	1649.4	1644.3
10°	1554.8	1550.1	1548.6	1539.3	1539.3
12.5°	1429.6	1428.1	1429.1	1424.4	1417.2
15°	1282.7	1286.3	1294.6	1289.5	1280.7
17.5°	1127.0	1132.2	1139.5	1137.9	1126.0
20°	954.3	969.3	979.6	969.8	952.7
22.5°	757.7	789.8	816.2	795.5	767.6
25°	584.5	612.4	658.9	623.8	595.8
27.5°	443.3	463.4	505.8	471.2	452.1
30°	324.8	337.2	366.7	344.0	330.5
32.5°	232.2	241.0	253.4	240.0	233.3
35°	162.4	167.1	172.8	167.6	162.9
37.5°	114.3	115.9	120.0	115.9	113.8
40°	80.2	80.7	83.8	81.2	80.2
42.5°	57.9	57.9	59.5	58.4	57.9
45°	41.4	41.9	42.9	42.4	41.9
47.5°	29.5	30.5	30.5	31.0	29.0
50°	17.6	21.7	22.2	21.7	17.6
52.5°	9.3	12.9	16.0	12.9	9.3
55°	5.7	7.8	10.9	7.8	6.2
57.5°	5.7	5.7	7.2	6.2	5.7
60°	5.7	5.7	5.7	5.7	5.7
62.5°	5.7	5.7	5.7	5.7	5.7
65°	5.2	5.7	5.7	5.7	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	4.1	4.7	4.7
75°	3.6	3.6	3.6	3.6	3.6
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)