

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: P284028

Luminaire Tested: **LDA2B159050D010 EU2B15WFL559050 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P284028
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: LDA2B159050D010 EU2B15WFL559050 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: 1050.6 lumens
Efficiency: N/A
Efficacy: 74.5 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

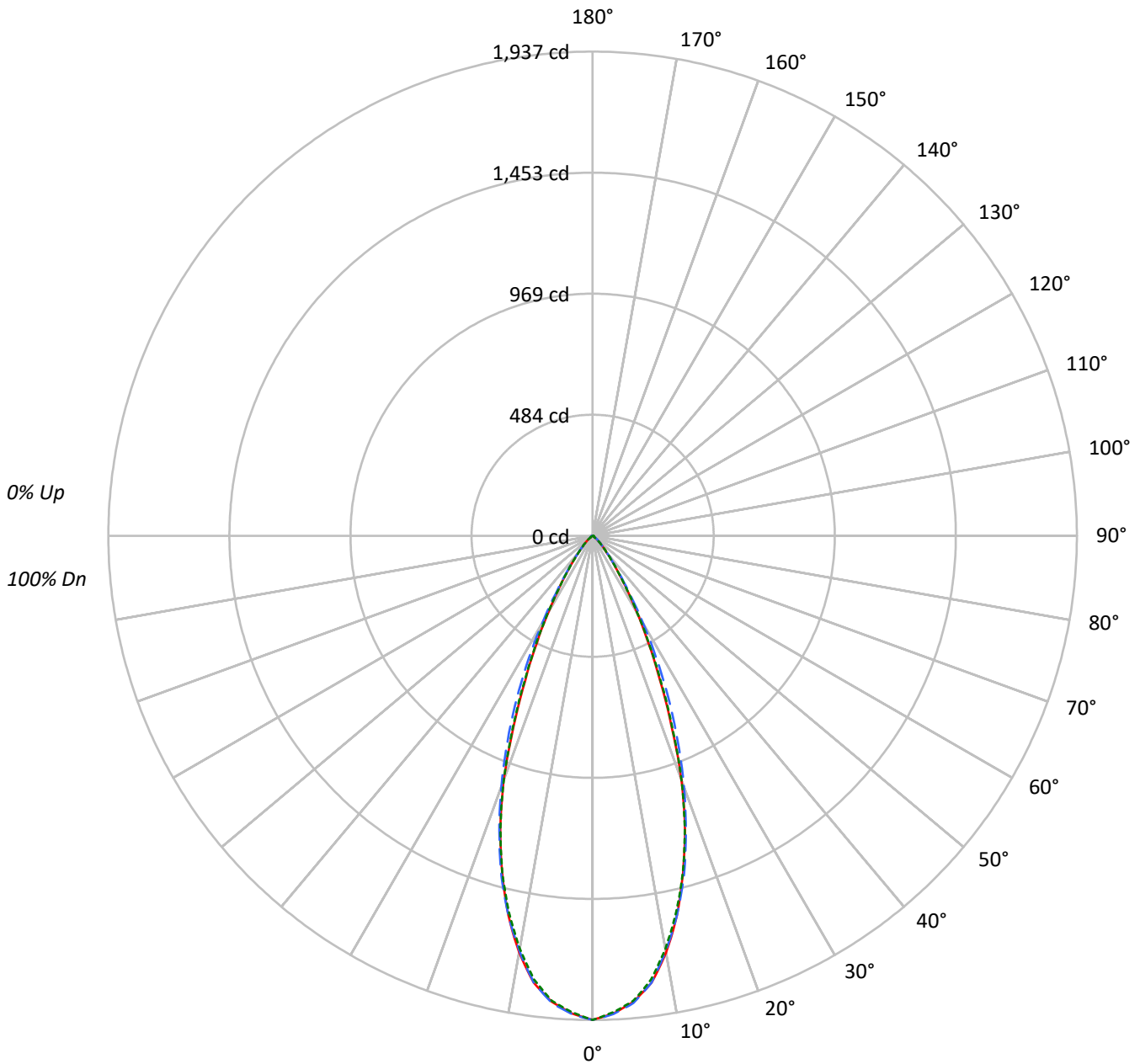
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	955592	955592	955592
5°	926903	929132	924922
10°	848397	845041	839931
15°	713642	720282	712467
20°	545763	560254	544871
25°	346542	390745	353293
30°	201555	227532	205087
35°	106544	113350	106905
40°	56225	58801	56225
45°	31467	32653	31816
50°	14737	18574	14737
55°	5333	10150	5849
60°	6118	6118	6118
65°	6537	7238	6537
70°	8078	7357	8078
75°	7434	7434	7434
80°	7955	6535	7955
85°	6227	6227	6227



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.9	16.5
10°-20°	385.0	36.6
20°-30°	310.9	29.6
30°-40°	122.9	11.7
40°-50°	37.7	3.6
50°-60°	9.7	0.9
60°-70°	5.9	0.6
70°-80°	4.3	0.4
80°-90°	1.3	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°	868.8	82.7
0°-40°	991.6	94.4
0°-60°	1039.1	98.9
0°-90°	1050.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1050.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1937	1937	1937	1937	1937	
5°	1872	1875	1876	1872	1868	173
15°	1397	1401	1410	1404	1395	384
25°	637	667	718	679	649	296
35°	177	182	188	182	178	118
45°	45	46	47	46	46	37
55°	6	8	12	8	7	8
65°	6	6	6	6	6	6
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°	1936.9	1936.9	1936.9	1936.9	1936.9
2.5°	1912.7	1913.8	1915.5	1913.3	1907.6
5°	1871.6	1875.0	1876.1	1872.1	1867.6
7.5°	1804.0	1800.0	1803.4	1796.6	1791.0
10°	1693.5	1688.5	1686.8	1676.6	1676.6
12.5°	1557.2	1555.5	1556.6	1551.6	1543.7
15°	1397.2	1401.1	1410.2	1404.5	1394.9
17.5°	1227.6	1233.3	1241.1	1239.5	1226.5
20°	1039.5	1055.8	1067.1	1056.4	1037.8
22.5°	825.4	860.3	889.0	866.5	836.1
25°	636.6	667.1	717.8	679.4	649.0
27.5°	482.8	504.8	551.0	513.2	492.4
30°	353.8	367.3	399.4	374.7	360.0
32.5°	253.0	262.5	276.1	261.4	254.1
35°	176.9	182.0	188.2	182.5	177.5
37.5°	124.5	126.2	130.7	126.2	123.9
40°	87.3	87.9	91.3	88.5	87.3
42.5°	63.1	63.1	64.8	63.7	63.1
45°	45.1	45.6	46.8	46.2	45.6
47.5°	32.1	33.2	33.2	33.8	31.5
50°	19.2	23.7	24.2	23.7	19.2
52.5°	10.1	14.1	17.5	14.1	10.1
55°	6.2	8.5	11.8	8.5	6.8
57.5°	6.2	6.2	7.9	6.8	6.2
60°	6.2	6.2	6.2	6.2	6.2
62.5°	6.2	6.2	6.2	6.2	6.2
65°	5.6	6.2	6.2	6.2	5.6
67.5°	5.6	5.6	5.6	5.6	5.6
70°	5.6	5.6	5.1	5.6	5.6
72.5°	5.1	5.1	4.5	5.1	5.1
75°	3.9	3.9	3.9	3.9	3.9
77.5°	3.4	3.4	3.4	3.4	3.4
80°	2.8	2.8	2.3	2.8	2.8
82.5°	1.7	1.7	1.7	1.7	1.7
85°	1.1	1.1	1.1	1.1	1.1
87.5°	0.6	0.6	0.6	0.6	0.6
90°	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)