

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: P282686

Luminaire Tested: **LDA2B109035D010 EU2B10NFL259035 2LBALPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282686
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-26)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B109035D010 EU2B10NFL259035 2LBALPINSQ1MW
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MW
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 766.2 lumens
Efficiency: N/A
Efficacy: 76.6 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.3 / 0.32
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

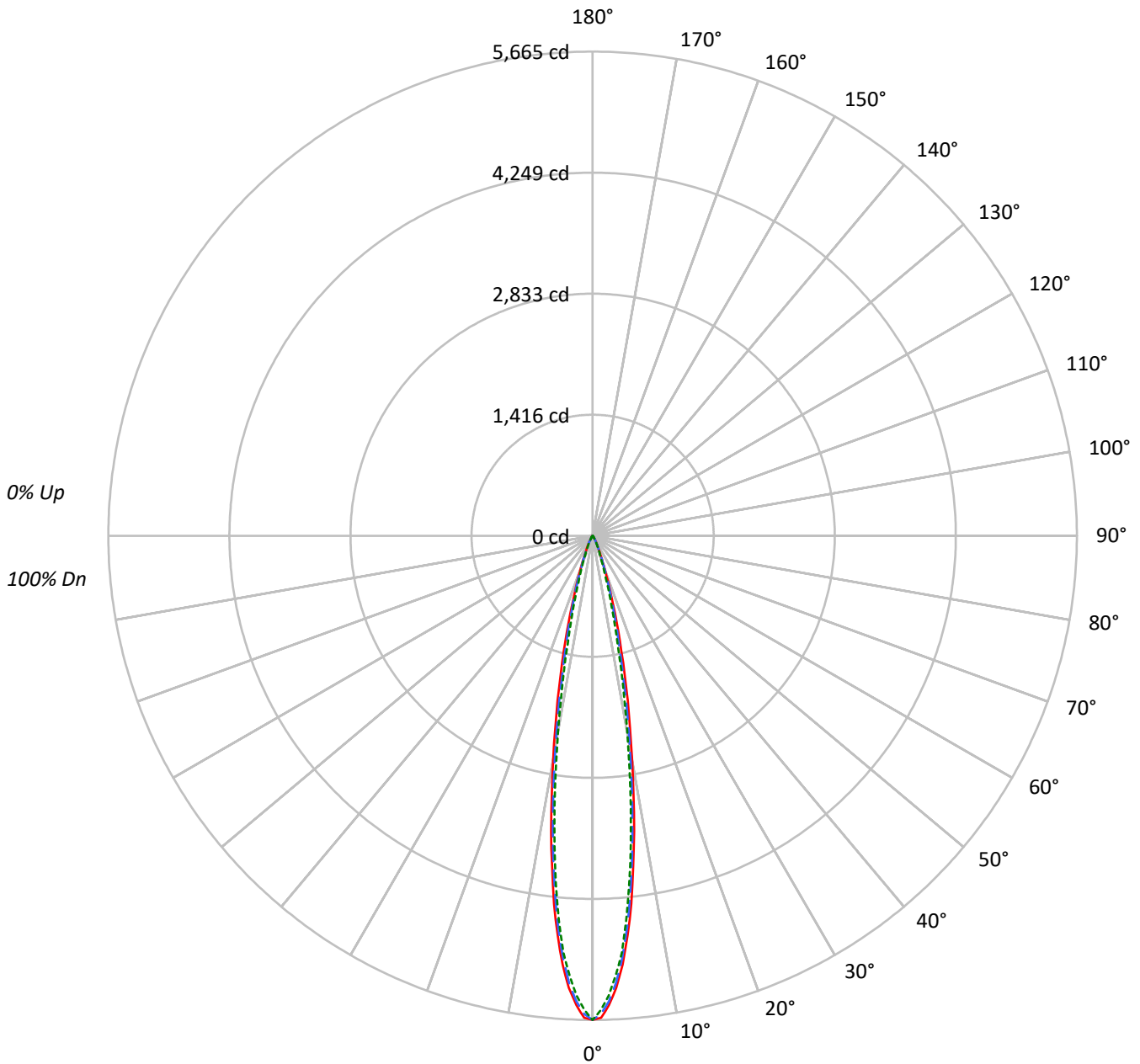
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				100															
1	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97				97															
2	112	109	106	104	110	107	105	103	104	102	100	101	100	98	99	97	96	95				95															
3	109	105	101	99	107	103	100	98	101	99	97	99	97	95	97	95	94	92				92															
4	106	101	98	95	105	100	97	94	98	96	93	96	94	92	95	93	91	90				90															
5	103	98	94	92	102	97	94	91	96	93	91	94	92	90	93	91	89	88				88															
6	101	95	92	89	100	95	91	89	93	90	88	92	90	88	91	89	87	86				86															
7	99	93	89	87	98	92	89	86	91	88	86	90	88	86	89	87	85	84				84															
8	96	91	87	85	96	90	87	84	89	86	84	88	86	84	88	85	83	83				83															
9	94	89	85	83	94	88	85	82	87	84	82	87	84	82	86	84	82	81				81															
10	93	87	83	81	92	86	83	81	86	83	81	85	82	80	85	82	80	79				79															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2795043	2795043	2795043
5°	2325776	2283135	2237028
10°	1332187	1250077	1166715
15°	592539	526242	440995
20°	214945	202082	160133
25°	82526	77082	66358
30°	35605	33099	29396
35°	16864	16864	13973
40°	8437	8695	7020
45°	4884	4605	4256
50°	3377	2993	2993
55°	2666	1892	2236
60°	2171	1283	1677
65°	1518	1051	1518
70°	1298	577	1298
75°	762	762	762
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	368.5	48.1
10°-20°	298.2	38.9
20°-30°	71.9	9.4
30°-40°	18.3	2.4
40°-50°	5.5	0.7
50°-60°	2.3	0.3
60°-70°	1.1	0.1
70°-80°	0.3	0.0
80°-90°	0.0	0.0
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°	738.6	96.4
0°-40°	756.9	98.8
0°-60°	764.7	99.8
0°-90°	766.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	766.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5665	5665	5665	5665	5665	
5°	4696	4653	4610	4570	4517	380
15°	1160	1132	1030	928	863	331
25°	152	152	142	128	122	78
35°	28	28	28	25	23	19
45°	7	7	7	6	6	6
55°	3	3	2	2	3	3
65°	1	1	1	1	1	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5665.3	5665.3	5665.3	5665.3	5665.3
1°	5639.9	5600.6	5595.8	5620.3	5548.2
2°	5495.8	5467.8	5451.6	5466.0	5384.3
3°	5297.8	5270.7	5241.5	5241.9	5150.6
4°	5028.2	5006.8	4957.4	4942.6	4889.7
5°	4696.2	4652.9	4610.1	4569.9	4517.0
6°	4329.1	4273.2	4212.0	4152.2	4098.0
7°	3897.4	3860.3	3779.5	3697.8	3651.9
8°	3491.5	3431.7	3337.3	3235.1	3196.2
9°	3055.0	3012.2	2903.9	2785.0	2746.1
10°	2659.2	2614.6	2495.3	2362.9	2328.9
11°	2287.8	2245.8	2121.7	1982.8	1946.5
12°	1973.6	1914.2	1771.8	1651.2	1615.8
13°	1660.8	1620.1	1485.1	1365.9	1297.3
14°	1394.7	1361.0	1238.7	1133.8	1061.3
15°	1160.1	1132.5	1030.3	928.0	863.4
16°	951.6	934.6	853.8	755.0	702.2
17°	772.1	756.3	704.8	613.9	569.3
18°	623.5	621.3	578.5	499.9	460.1
19°	513.0	512.1	472.8	406.8	374.0
20°	409.4	415.1	384.9	327.3	305.0
21°	333.8	336.9	312.8	269.2	249.1
22°	271.8	274.0	258.2	222.4	211.5
23°	222.8	224.1	211.0	184.4	174.8
24°	183.5	184.4	172.6	153.8	145.5
25°	151.6	152.5	141.6	128.5	121.9
26°	125.8	126.7	117.1	107.9	101.4
27°	104.4	106.2	96.6	90.9	83.9
28°	89.1	89.6	80.8	77.3	70.8
29°	73.0	75.6	68.2	65.1	60.3
30°	62.5	63.8	58.1	55.9	51.6
32.5°	41.5	42.4	39.8	38.0	34.5
35°	28.0	28.4	28.0	25.3	23.2
37.5°	19.2	19.2	19.7	16.6	15.7
40°	13.1	13.1	13.5	11.4	10.9
42.5°	9.6	9.6	9.2	7.9	7.9
45°	7.0	7.0	6.6	6.1	6.1
47.5°	5.7	5.2	4.8	4.8	4.8
50°	4.4	4.4	3.9	3.5	3.9
52.5°	3.5	3.5	3.1	3.1	3.1
55°	3.1	2.6	2.2	2.2	2.6
57.5°	2.2	2.2	1.7	1.7	2.2
60°	2.2	1.7	1.3	1.7	1.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1.3	0.9	0.9	0.9	0.9
70°	0.9	0.9	0.4	0.4	0.9
72.5°	0.4	0.4	0.4	0.4	0.4
75°	0.4	0.4	0.4	0.4	0.4
77.5°	0.4	0.4	0.0	0.0	0.4
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	1.7	1.3	1.3	1.3	1.3
65°	1.3	1.3	0.9	0.9	1.3



(END OF REPORT)