

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: P282140

Luminaire Tested: **LDA2B058050D010 EU2B05NFL258050 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282140
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: LDA2B058050D010 EU2B05NFL258050 2LBAPINSQ1MW
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ PinHole, MW
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 763.6 lumens
Efficiency: N/A
Efficacy: 109.1 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

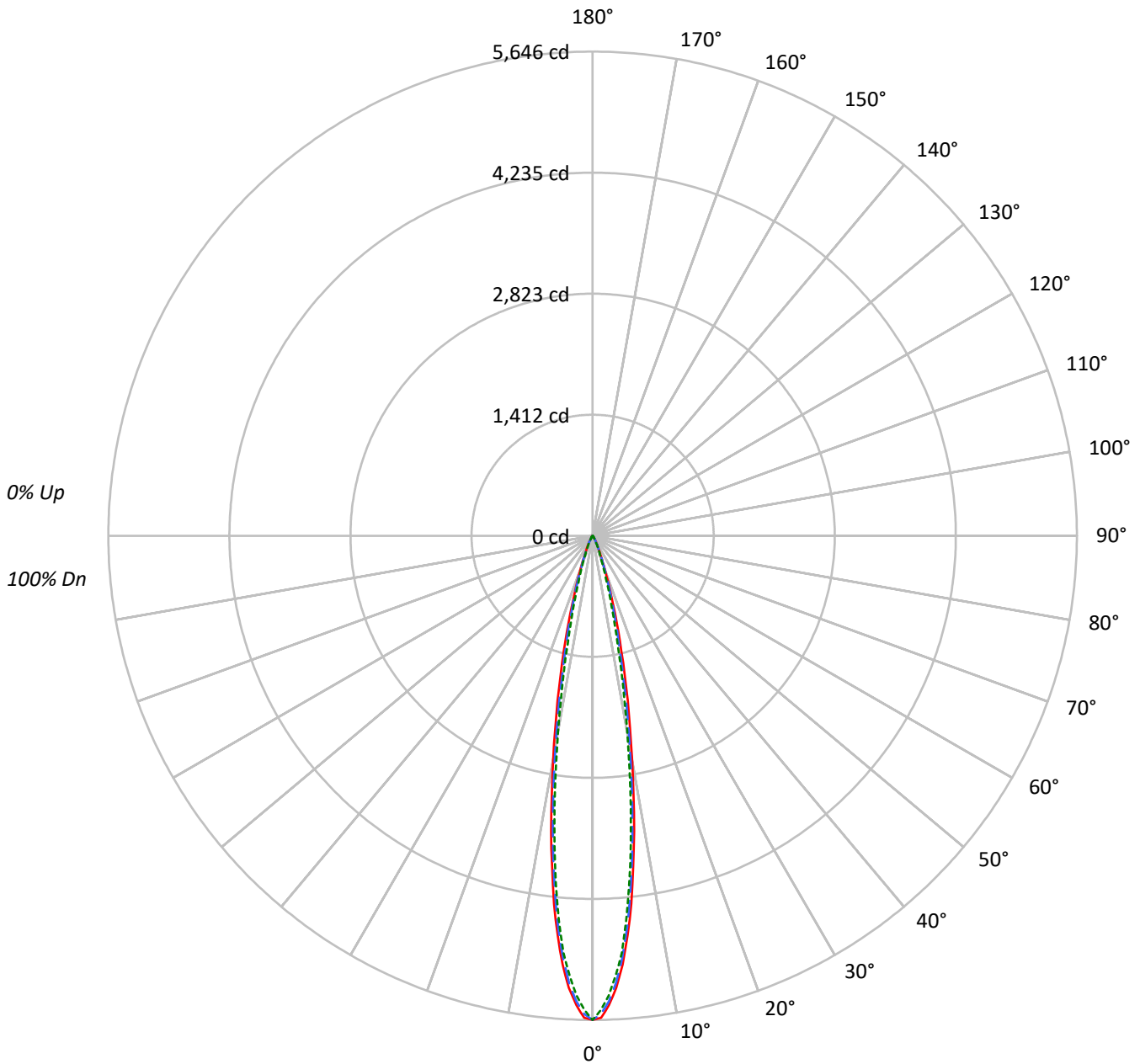
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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																			
1	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97																			
2	112	109	106	104	110	107	105	103	104	102	100	101	100	98	99	97	96	95																			
3	109	105	101	99	107	103	100	98	101	99	97	99	97	95	97	95	94	92																			
4	106	101	98	95	105	100	97	94	98	96	93	96	94	92	95	93	91	90																			
5	103	98	94	92	102	97	94	91	96	93	91	94	92	90	93	91	89	88																			
6	101	95	92	89	100	95	91	89	93	90	88	92	90	88	91	89	87	86																			
7	99	93	89	87	98	92	89	86	91	88	86	90	88	86	89	87	85	84																			
8	96	91	87	85	96	90	87	84	89	86	84	88	86	84	88	85	83	83																			
9	94	89	85	83	94	88	85	82	87	84	82	87	84	82	86	84	82	81																			
10	93	87	83	81	92	86	83	81	86	83	81	85	82	80	85	82	80	79																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2785669	2785669	2785669
5°	2317951	2275508	2229550
10°	1327728	1245919	1162808
15°	590547	524454	439514
20°	214210	201452	159607
25°	82253	76810	66140
30°	35491	32985	29282
35°	16804	16804	13913
40°	8437	8695	7020
45°	4884	4535	4256
50°	3377	2993	2993
55°	2580	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°	367.2	48.1
10°-20°	297.2	38.9
20°-30°	71.7	9.4
30°-40°	18.3	2.4
40°-50°	5.4	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°	736.1	96.4
0°-40°	754.4	98.8
0°-60°	762.1	99.8
0°-90°	763.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	763.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5646	5646	5646	5646	5646	
5°	4680	4637	4595	4555	4502	378
15°	1156	1129	1027	925	860	330
25°	151	152	141	128	122	78
35°	28	28	28	25	23	19
45°	7	7	6	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°	5646.3	5646.3	5646.3	5646.3	5646.3
1°	5621.1	5581.9	5577.1	5601.5	5529.6
2°	5477.4	5449.5	5433.4	5447.7	5366.3
3°	5280.1	5253.1	5223.9	5224.3	5133.3
4°	5011.4	4990.1	4940.9	4926.0	4873.4
5°	4680.4	4637.3	4594.7	4554.6	4501.9
6°	4314.6	4258.9	4197.9	4138.3	4084.3
7°	3884.4	3847.4	3766.8	3685.4	3639.7
8°	3479.9	3420.2	3326.1	3224.2	3185.5
9°	3044.8	3002.1	2894.1	2775.7	2736.9
10°	2650.3	2605.9	2487.0	2355.0	2321.1
11°	2280.1	2238.3	2114.6	1976.2	1940.0
12°	1967.0	1907.8	1765.8	1645.6	1610.4
13°	1655.2	1614.7	1480.2	1361.3	1292.9
14°	1390.0	1356.5	1234.6	1130.0	1057.8
15°	1156.2	1128.7	1026.8	924.9	860.5
16°	948.5	931.5	850.9	752.5	699.8
17°	769.5	753.8	702.4	611.8	567.4
18°	621.4	619.2	576.6	498.2	458.6
19°	511.2	510.4	471.2	405.4	372.8
20°	408.0	413.7	383.7	326.2	304.0
21°	332.7	335.7	311.8	268.3	248.2
22°	270.9	273.0	257.4	221.7	210.8
23°	222.1	223.4	210.3	183.8	174.2
24°	182.9	183.8	172.0	153.3	145.0
25°	151.1	152.0	141.1	128.0	121.5
26°	125.4	126.3	116.7	107.6	101.0
27°	104.1	105.8	96.2	90.6	83.6
28°	88.8	89.3	80.6	77.1	70.5
29°	72.7	75.3	67.9	64.9	60.1
30°	62.3	63.6	57.9	55.7	51.4
32.5°	41.4	42.2	39.6	37.9	34.4
35°	27.9	28.3	27.9	25.3	23.1
37.5°	19.2	19.2	19.6	16.5	15.7
40°	13.1	13.1	13.5	11.3	10.9
42.5°	9.6	9.6	9.1	7.8	7.8
45°	7.0	7.0	6.5	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	3.0	3.0	3.0
55°	3.0	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)