

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: P282650

Luminaire Tested: **LDA2B059050D010 EU2B05NFL259050 2LBALPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282650
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: LDA2B059050D010 EU2B05NFL259050 2LBALPINSQ1MW
Description: PORTFOLIO 2IN ADJ 500 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: 591.7 lumens
Efficiency: N/A
Efficacy: 84.5 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

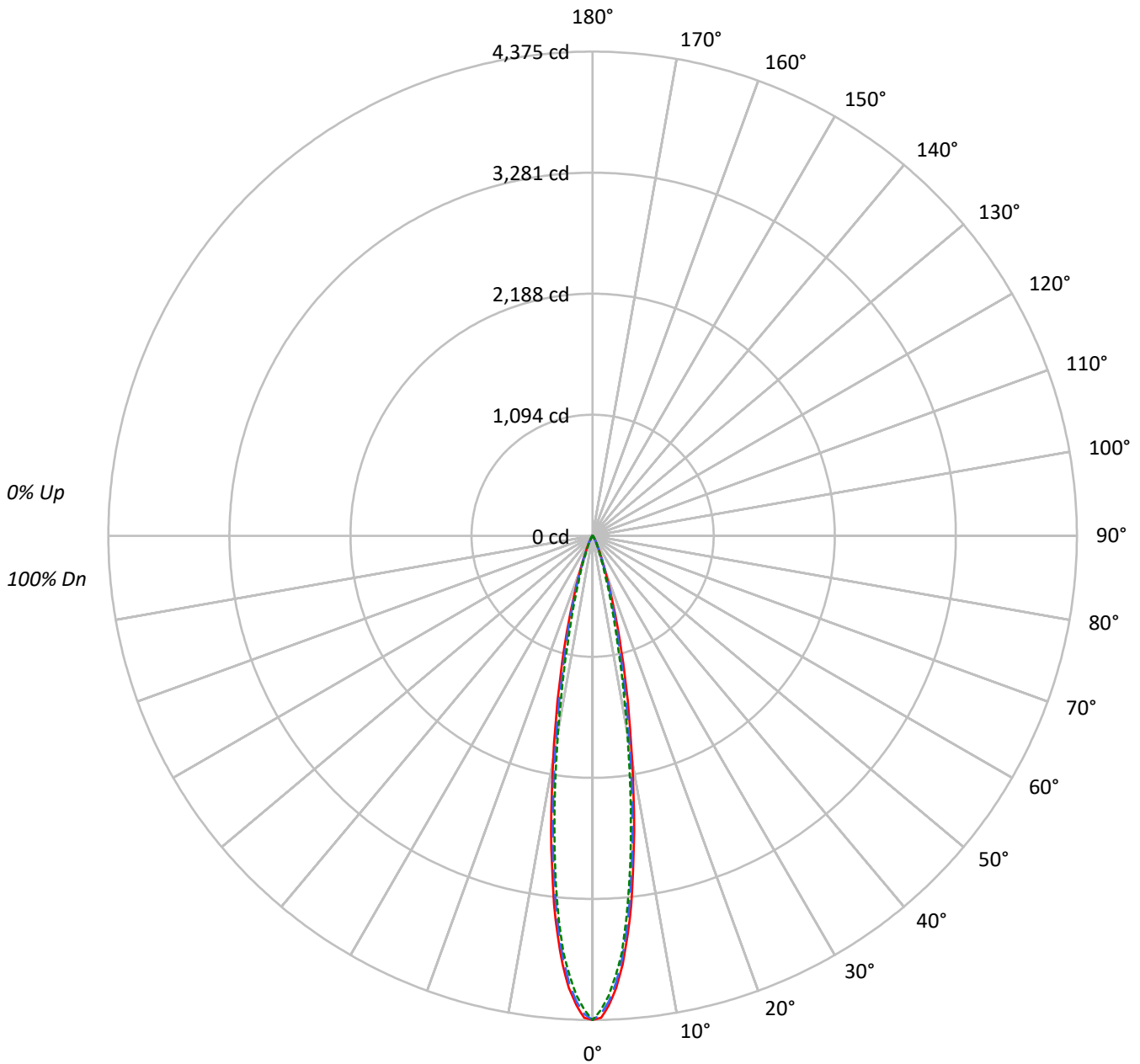
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2158556	2158556	2158556
5°	1796159	1763226	1727617
10°	1028848	965424	900999
15°	457595	406416	340579
20°	166013	156090	123643
25°	63745	59499	51225
30°	27516	25579	22673
35°	13009	13009	10781
40°	6505	6762	5410
45°	3768	3558	3279
50°	2610	2303	2303
55°	2064	1462	1720
60°	1677	987	1283
65°	1167	817	1167
70°	1010	433	1010
75°	572	572	572
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.6	48.1
10°-20°	230.3	38.9
20°-30°	55.5	9.4
30°-40°	14.2	2.4
40°-50°	4.2	0.7
50°-60°	1.8	0.3
60°-70°	0.9	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°	570.4	96.4
0°-40°	584.5	98.8
0°-60°	590.5	99.8
0°-90°	591.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	591.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4375	4375	4375	4375	4375	
5°	3627	3593	3560	3529	3488	293
15°	896	875	796	717	667	255
25°	117	118	109	99	94	60
35°	22	22	22	20	18	15
45°	5	5	5	5	5	5
55°	2	2	2	2	2	2
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°	4375.2	4375.2	4375.2	4375.2	4375.2
1°	4355.7	4325.3	4321.6	4340.5	4284.8
2°	4244.3	4222.7	4210.2	4221.4	4158.3
3°	4091.4	4070.5	4047.9	4048.3	3977.7
4°	3883.2	3866.7	3828.6	3817.1	3776.3
5°	3626.8	3593.4	3560.3	3529.3	3488.4
6°	3343.3	3300.2	3252.9	3206.7	3164.8
7°	3010.0	2981.3	2918.8	2855.7	2820.3
8°	2696.5	2650.2	2577.4	2498.4	2468.4
9°	2359.4	2326.3	2242.6	2150.8	2120.8
10°	2053.7	2019.2	1927.1	1824.9	1798.5
11°	1766.8	1734.4	1638.6	1531.3	1503.3
12°	1524.2	1478.3	1368.3	1275.2	1247.8
13°	1282.6	1251.2	1147.0	1054.8	1001.9
14°	1077.1	1051.1	956.6	875.7	819.6
15°	895.9	874.6	795.7	716.7	666.8
16°	734.9	721.8	659.4	583.1	542.3
17°	596.3	584.1	544.3	474.1	439.7
18°	481.5	479.8	446.8	386.0	355.3
19°	396.2	395.5	365.1	314.2	288.8
20°	316.2	320.6	297.3	252.7	235.5
21°	257.8	260.2	241.6	207.9	192.3
22°	209.9	211.6	199.4	171.8	163.3
23°	172.1	173.1	163.0	142.4	135.0
24°	141.7	142.4	133.3	118.8	112.4
25°	117.1	117.8	109.3	99.2	94.1
26°	97.2	97.9	90.4	83.3	78.3
27°	80.6	82.0	74.6	70.2	64.8
28°	68.8	69.2	62.4	59.7	54.7
29°	56.4	58.4	52.6	50.3	46.6
30°	48.3	49.3	44.9	43.2	39.8
32.5°	32.1	32.7	30.7	29.4	26.7
35°	21.6	21.9	21.6	19.6	17.9
37.5°	14.8	14.8	15.2	12.8	12.1
40°	10.1	10.1	10.5	8.8	8.4
42.5°	7.4	7.4	7.1	6.1	6.1
45°	5.4	5.4	5.1	4.7	4.7
47.5°	4.4	4.0	3.7	3.7	3.7
50°	3.4	3.4	3.0	2.7	3.0
52.5°	2.7	2.7	2.4	2.4	2.4
55°	2.4	2.0	1.7	1.7	2.0
57.5°	1.7	1.7	1.3	1.3	1.7
60°	1.7	1.3	1.0	1.3	1.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1.0	0.7	0.7	0.7	0.7
70°	0.7	0.7	0.3	0.3	0.7
72.5°	0.3	0.3	0.3	0.3	0.3
75°	0.3	0.3	0.3	0.3	0.3
77.5°	0.3	0.3	0.0	0.0	0.3
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°	1.3	1.0	1.0	1.0	1.0
65°	1.0	1.0	0.7	0.7	1.0



(END OF REPORT)