

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: P283777

Luminaire Tested: **LDA2B209050D010 EU2B20FL409050 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283777
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-15)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B209050D010 EU2B20FL409050 2LBALPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MMS

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1429.4 lumens
Efficiency: N/A
Efficacy: 69.4 lumens/watt
Spacing Criteria (0/90/45): 0.55 / 0.55 / 0.55
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

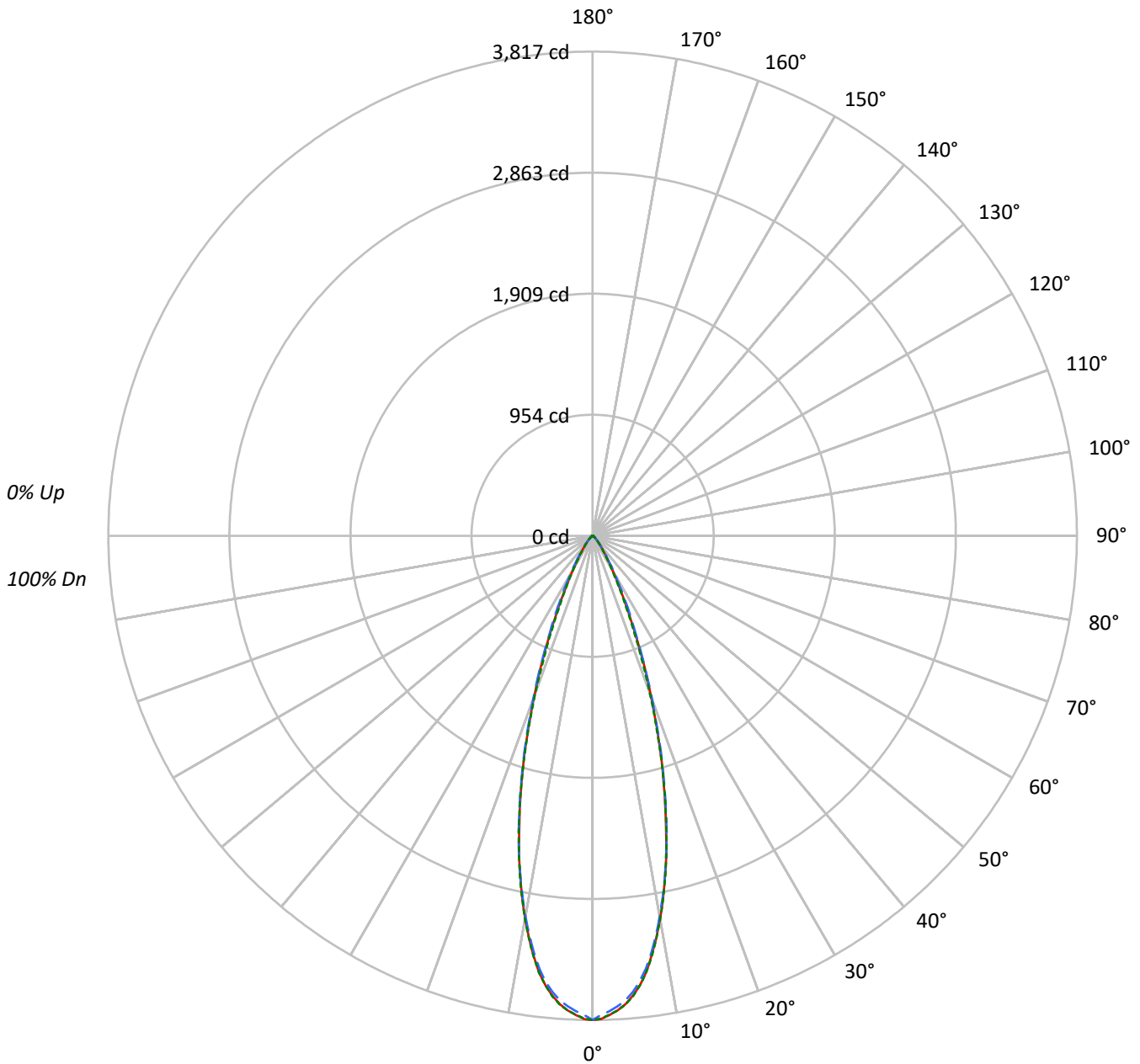
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				100															
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95				95															
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90				90															
3	105	100	96	92	104	99	95	92	96	93	90	94	91	89	92	89	88	86				86															
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	83	82				82															
5	98	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	79				79															
6	94	87	82	78	93	86	81	78	84	80	77	83	80	77	82	79	76	75				75															
7	91	83	78	75	89	82	78	74	81	77	74	80	76	74	79	76	73	72				72															
8	87	80	75	71	86	79	74	71	78	74	71	77	73	71	76	73	70	69				69															
9	84	77	72	69	83	76	72	68	75	71	68	74	71	68	74	70	68	67				67															
10	82	74	69	66	81	73	69	66	73	69	66	72	68	65	71	68	65	64				64															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1883359	1883359	1883359
5°	1802350	1788879	1805123
10°	1535531	1525913	1537135
15°	1131755	1139161	1135432
20°	706526	719599	690932
25°	364942	391616	346651
30°	175007	200586	166747
35°	90343	99979	84500
40°	50621	53198	48045
45°	30769	30769	29653
50°	16041	19726	16041
55°	8257	13074	8946
60°	9473	9473	9473
65°	10273	10273	10273
70°	12694	11540	12694
75°	12200	12200	12200
80°	11365	11365	11365
85°	9057	9057	9057



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	328.4	23.0
10°-20°	603.1	42.2
20°-30°	327.0	22.9
30°-40°	105.0	7.3
40°-50°	35.8	2.5
50°-60°	12.5	0.9
60°-70°	9.1	0.6
70°-80°	6.6	0.5
80°-90°	1.9	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°	1258.5	88.0
0°-40°	1363.4	95.4
0°-60°	1411.7	98.8
0°-90°	1429.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1429.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3817	3817	3817	3817	3817	
5°	3639	3617	3612	3648	3645	329
15°	2216	2234	2230	2241	2223	601
25°	670	701	719	670	637	321
35°	150	156	166	151	140	101
45°	44	45	44	44	42	35
55°	10	12	15	12	10	11
65°	9	10	9	10	9	9
75°	6	6	6	6	6	7
85°	2	2	2	2	2	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3817.4	3817.4	3817.4	3817.4	3817.4
1°	3810.9	3783.7	3779.7	3815.0	3806.9
2°	3780.5	3754.8	3750.8	3786.1	3778.9
3°	3746.8	3723.5	3715.5	3752.4	3747.6
4°	3701.9	3680.2	3673.0	3709.9	3705.9
5°	3639.3	3616.9	3612.1	3648.1	3644.9
6°	3562.3	3543.9	3535.1	3571.2	3564.7
7°	3466.1	3449.3	3439.6	3466.1	3469.3
8°	3341.0	3333.0	3321.7	3348.2	3348.2
9°	3207.9	3200.6	3188.6	3212.7	3212.7
10°	3065.1	3060.3	3045.9	3068.3	3068.3
11°	2908.7	2906.3	2895.9	2914.3	2914.3
12°	2744.3	2749.9	2740.3	2756.4	2750.7
13°	2579.9	2577.5	2578.3	2590.3	2581.5
14°	2393.9	2408.3	2410.7	2417.9	2404.3
15°	2215.8	2234.3	2230.3	2240.7	2223.0
16°	2033.8	2054.6	2053.8	2056.2	2039.4
17°	1863.8	1875.8	1876.6	1874.2	1853.3
18°	1682.5	1699.4	1699.4	1695.4	1670.5
19°	1505.3	1518.1	1526.9	1518.1	1489.3
20°	1345.7	1354.5	1370.6	1348.1	1316.0
21°	1192.5	1200.5	1214.2	1187.7	1152.4
22°	1045.8	1056.2	1069.0	1038.5	1001.7
23°	908.6	932.7	937.5	895.8	864.5
24°	782.7	810.0	818.0	775.5	742.6
25°	670.4	700.9	719.4	669.6	636.8
26°	573.4	603.1	625.5	575.8	544.5
27°	488.4	519.7	542.9	496.4	466.7
28°	415.4	445.9	470.0	426.6	398.6
29°	360.9	378.5	402.6	366.5	340.8
30°	307.2	326.4	352.1	315.2	292.7
32.5°	210.9	221.3	241.4	218.9	201.3
35°	150.0	156.4	166.0	150.8	140.3
37.5°	106.7	109.9	115.5	106.7	101.0
40°	78.6	80.2	82.6	77.8	74.6
42.5°	58.5	59.3	59.3	57.7	56.1
45°	44.1	44.9	44.1	44.1	42.5
47.5°	32.1	34.5	33.7	33.7	31.3
50°	20.9	25.7	25.7	24.9	20.9
52.5°	12.8	17.6	20.0	17.6	13.6
55°	9.6	12.0	15.2	12.0	10.4
57.5°	9.6	9.6	11.2	9.6	9.6
60°	9.6	9.6	9.6	9.6	9.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	8.8	8.8	8.8	8.8	8.8
70°	8.8	8.8	8.0	8.8	8.8
72.5°	8.0	8.0	7.2	8.0	7.2
75°	6.4	6.4	6.4	6.4	6.4
77.5°	4.8	4.8	4.8	4.8	4.8
80°	4.0	4.0	4.0	4.0	4.0
82.5°	2.4	2.4	2.4	3.2	2.4
85°	1.6	1.6	1.6	1.6	1.6
87.5°	0.8	0.8	0.8	0.8	0.8
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	9.6	9.6	9.6	9.6	9.6
65°	8.8	9.6	8.8	9.6	8.8



(END OF REPORT)