

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: P282662

Luminaire Tested: **LDA2B108027D010 EU2B10NFL258027 2LBALPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282662
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: LDA2B108027D010 EU2B10NFL258027 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: 897.6 lumens
Efficiency: N/A
Efficacy: 89.8 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

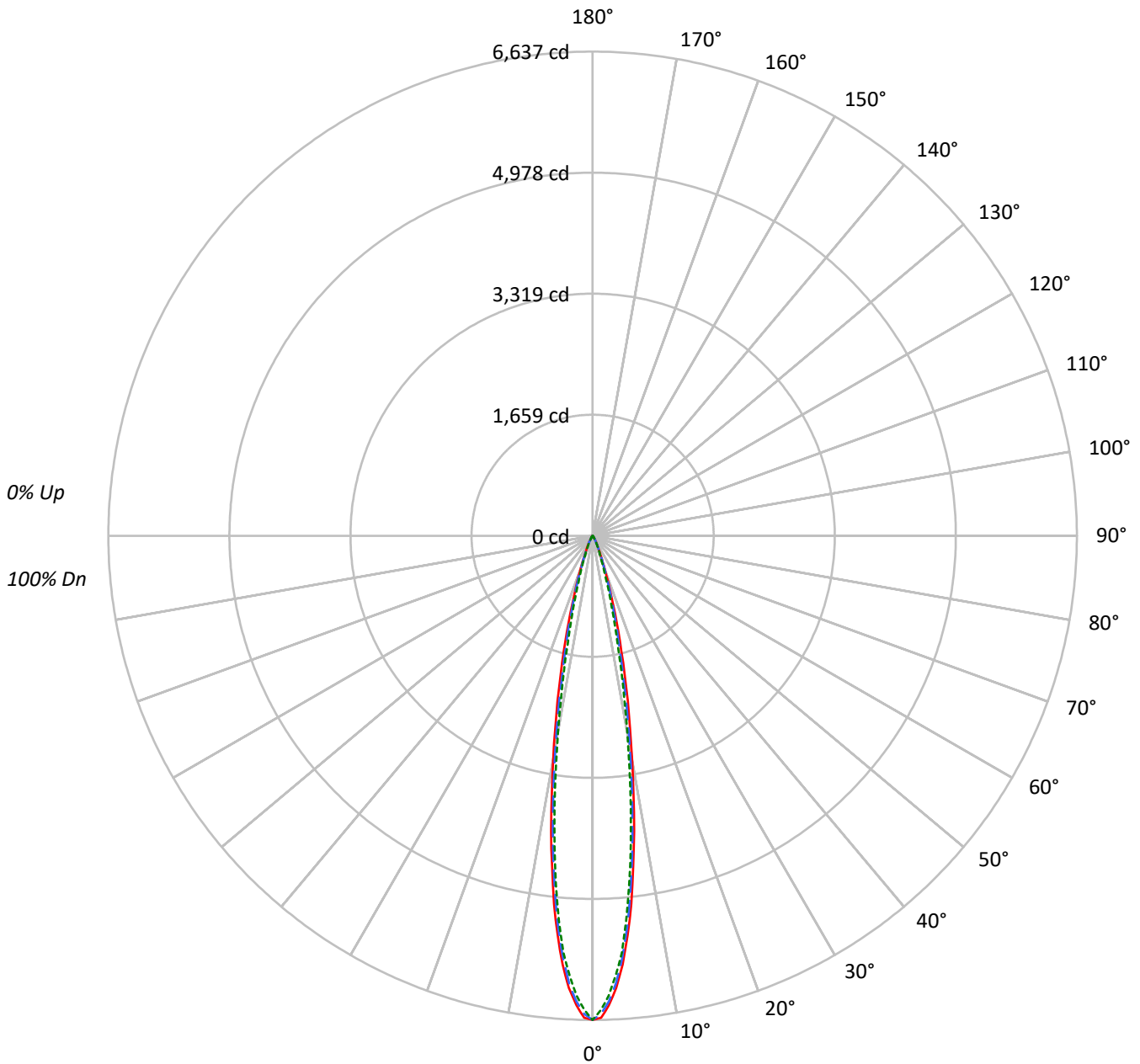
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3274640	3274640	3274640
5°	2724845	2674925	2620893
10°	1560780	1464594	1366904
15°	694182	616545	516640
20°	251854	236786	187591
25°	96679	90310	77735
30°	41701	38796	34409
35°	19755	19755	16322
40°	9918	10240	8244
45°	5721	5372	5024
50°	3914	3531	3531
55°	3097	2236	2666
60°	2565	1480	1973
65°	1751	1167	1751
70°	1442	721	1442
75°	953	953	953
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	431.7	48.1
10°-20°	349.3	38.9
20°-30°	84.2	9.4
30°-40°	21.5	2.4
40°-50°	6.4	0.7
50°-60°	2.7	0.3
60°-70°	1.3	0.1
70°-80°	0.4	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°	865.3	96.4
0°-40°	886.8	98.8
0°-60°	895.9	99.8
0°-90°	897.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	897.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6637	6637	6637	6637	6637	
5°	5502	5451	5401	5354	5292	445
15°	1359	1327	1207	1087	1012	388
25°	178	179	166	150	143	92
35°	33	33	33	30	27	23
45°	8	8	8	7	7	7
55°	4	3	3	3	3	3
65°	2	2	1	1	2	2
75°	0	0	0	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6637.4	6637.4	6637.4	6637.4	6637.4
1°	6607.7	6561.6	6556.0	6584.7	6500.2
2°	6438.8	6406.0	6387.1	6404.0	6308.3
3°	6206.9	6175.2	6140.9	6141.4	6034.4
4°	5891.0	5866.0	5808.1	5790.7	5728.8
5°	5502.0	5451.3	5401.2	5354.1	5292.1
6°	5072.0	5006.5	4934.8	4864.7	4801.2
7°	4566.2	4522.7	4428.0	4332.3	4278.5
8°	4090.7	4020.5	3910.0	3790.2	3744.6
9°	3579.3	3529.1	3402.1	3262.9	3217.3
10°	3115.5	3063.3	2923.5	2768.4	2728.5
11°	2680.4	2631.2	2485.8	2323.0	2280.6
12°	2312.3	2242.7	2075.8	1934.5	1893.0
13°	1945.8	1898.2	1740.0	1600.2	1519.9
14°	1634.0	1594.6	1451.3	1328.4	1243.4
15°	1359.1	1326.9	1207.1	1087.3	1011.5
16°	1114.9	1095.0	1000.3	884.6	822.6
17°	904.5	886.1	825.7	719.2	667.0
18°	730.5	727.9	677.8	585.6	539.0
19°	601.0	600.0	553.9	476.6	438.2
20°	479.7	486.3	451.0	383.4	357.3
21°	391.1	394.7	366.5	315.3	291.8
22°	318.4	321.0	302.5	260.6	247.8
23°	261.1	262.6	247.3	216.0	204.8
24°	215.0	216.0	202.2	180.2	170.5
25°	177.6	178.7	165.9	150.5	142.8
26°	147.4	148.5	137.2	126.4	118.8
27°	122.3	124.4	113.1	106.5	98.3
28°	104.4	104.9	94.7	90.6	82.9
29°	85.5	88.6	79.9	76.3	70.6
30°	73.2	74.7	68.1	65.5	60.4
32.5°	48.6	49.7	46.6	44.5	40.4
35°	32.8	33.3	32.8	29.7	27.1
37.5°	22.5	22.5	23.0	19.5	18.4
40°	15.4	15.4	15.9	13.3	12.8
42.5°	11.3	11.3	10.8	9.2	9.2
45°	8.2	8.2	7.7	7.2	7.2
47.5°	6.7	6.1	5.6	5.6	5.6
50°	5.1	5.1	4.6	4.1	4.6
52.5°	4.1	4.1	3.6	3.6	3.6
55°	3.6	3.1	2.6	2.6	3.1
57.5°	2.6	2.6	2.0	2.0	2.6
60°	2.6	2.0	1.5	2.0	2.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1.5	1.0	1.0	1.0	1.0
70°	1.0	1.0	0.5	0.5	1.0
72.5°	0.5	0.5	0.5	0.5	0.5
75°	0.5	0.5	0.5	0.5	0.5
77.5°	0.5	0.5	0.0	0.0	0.5
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°	2.0	1.5	1.5	1.5	1.5
65°	1.5	1.5	1.0	1.0	1.5



(END OF REPORT)