

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: P282765

Luminaire Tested: **LDA2B209027D010 EU2B20NFL259027 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282765
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: LDA2B209027D010 EU2B20NFL259027 2LBALPINSQ1MB
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MB
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1291.0 lumens
Efficiency: N/A
Efficacy: 62.7 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

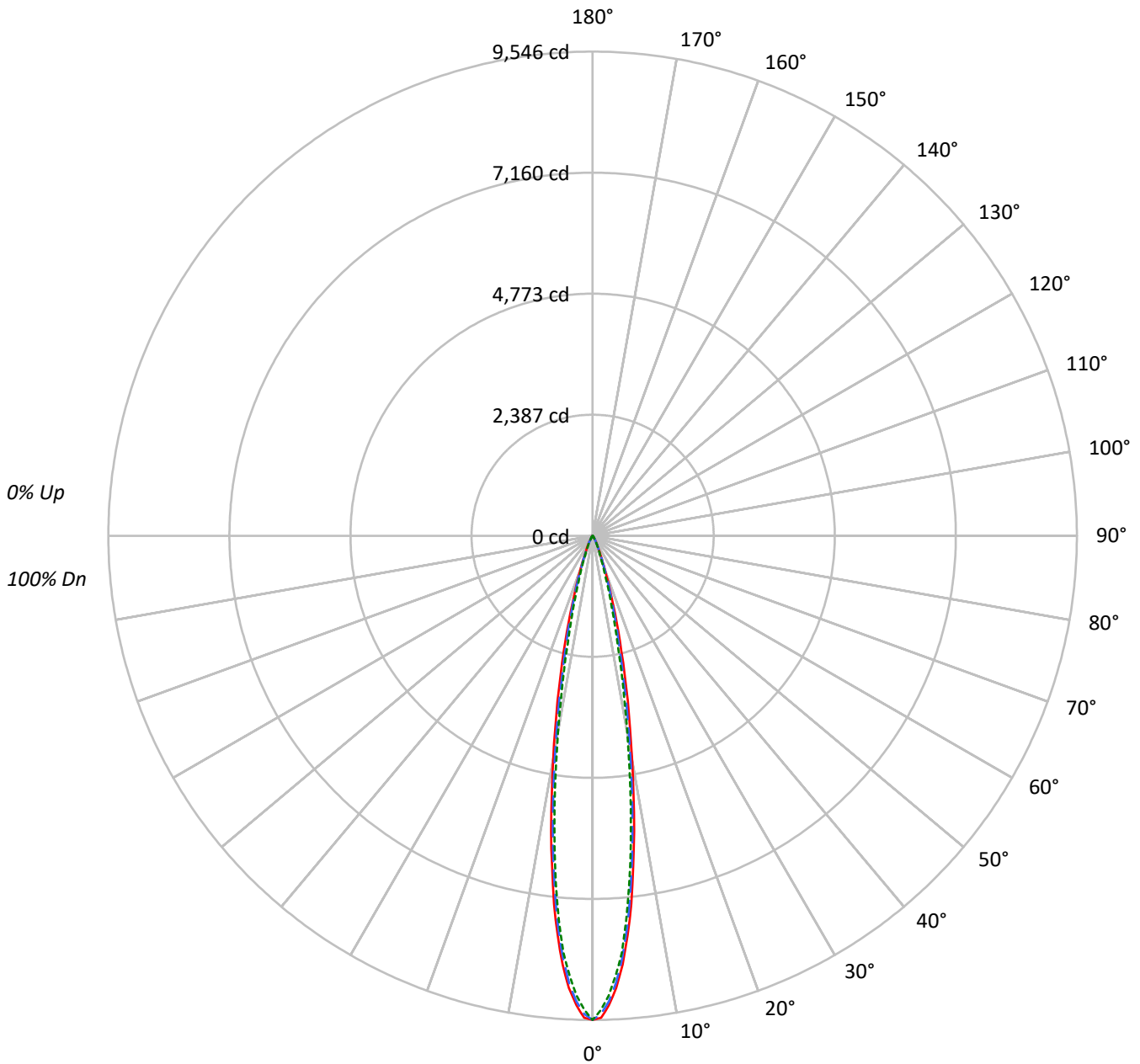
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4709780	4709780	4709780
5°	3919033	3847173	3769518
10°	2244758	2106490	1965917
15°	998445	886740	743062
20°	362215	340531	269810
25°	139085	129831	111812
30°	59988	55772	49506
35°	28368	28368	23489
40°	14233	14684	11850
45°	8233	7675	7187
50°	5680	5066	5066
55°	4473	3183	3785
60°	3651	2171	2861
65°	2568	1751	2568
70°	2164	1010	2164
75°	1334	1334	1334
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	620.9	48.1
10°-20°	502.5	38.9
20°-30°	121.2	9.4
30°-40°	30.9	2.4
40°-50°	9.2	0.7
50°-60°	3.9	0.3
60°-70°	1.9	0.1
70°-80°	0.6	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°	1244.5	96.4
0°-40°	1275.4	98.8
0°-60°	1288.5	99.8
0°-90°	1291.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1291.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9546	9546	9546	9546	9546	
5°	7913	7840	7768	7700	7611	640
15°	1955	1908	1736	1564	1455	557
25°	256	257	238	216	205	132
35°	47	48	47	43	39	32
45°	12	12	11	10	10	10
55°	5	4	4	4	4	5
65°	2	2	2	2	2	2
75°	1	1	1	1	1	1
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°	9546.3	9546.3	9546.3	9546.3	9546.3
1°	9503.6	9437.3	9429.2	9470.5	9349.0
2°	9260.6	9213.5	9186.3	9210.6	9072.9
3°	8927.1	8881.4	8832.1	8832.9	8679.0
4°	8472.8	8436.7	8353.6	8328.5	8239.4
5°	7913.3	7840.4	7768.2	7700.5	7611.4
6°	7294.8	7200.6	7097.5	6996.6	6905.3
7°	6567.4	6504.8	6368.6	6230.9	6153.6
8°	5883.4	5782.5	5623.5	5451.2	5385.7
9°	5147.9	5075.7	4893.2	4692.9	4627.4
10°	4480.8	4405.8	4204.8	3981.7	3924.2
11°	3855.0	3784.4	3575.3	3341.1	3280.0
12°	3325.7	3225.5	2985.5	2782.3	2722.7
13°	2798.5	2730.0	2502.5	2301.5	2185.9
14°	2350.1	2293.4	2087.3	1910.6	1788.4
15°	1954.8	1908.4	1736.1	1563.8	1454.8
16°	1603.6	1574.8	1438.6	1272.2	1183.2
17°	1301.0	1274.5	1187.6	1034.4	959.3
18°	1050.6	1047.0	974.8	842.3	775.3
19°	864.4	862.9	796.6	685.5	630.2
20°	689.9	699.4	648.6	551.5	513.9
21°	562.5	567.7	527.2	453.5	419.7
22°	458.0	461.6	435.1	374.8	356.3
23°	375.5	377.7	355.6	310.7	294.5
24°	309.2	310.7	290.8	259.2	245.2
25°	255.5	257.0	238.5	216.5	205.4
26°	212.0	213.5	197.3	181.9	170.8
27°	176.0	178.9	162.7	153.1	141.4
28°	150.2	150.9	136.2	130.3	119.3
29°	123.0	127.4	114.9	109.7	101.6
30°	105.3	107.5	97.9	94.2	86.9
32.5°	69.9	71.4	67.0	64.1	58.2
35°	47.1	47.9	47.1	42.7	39.0
37.5°	32.4	32.4	33.1	28.0	26.5
40°	22.1	22.1	22.8	19.1	18.4
42.5°	16.2	16.2	15.5	13.3	13.3
45°	11.8	11.8	11.0	10.3	10.3
47.5°	9.6	8.8	8.1	8.1	8.1
50°	7.4	7.4	6.6	5.9	6.6
52.5°	5.9	5.9	5.2	5.2	5.2
55°	5.2	4.4	3.7	3.7	4.4
57.5°	3.7	3.7	2.9	2.9	3.7
60°	3.7	2.9	2.2	2.9	2.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	2.2	1.5	1.5	1.5	1.5
70°	1.5	1.5	0.7	0.7	1.5
72.5°	0.7	0.7	0.7	0.7	0.7
75°	0.7	0.7	0.7	0.7	0.7
77.5°	0.7	0.7	0.0	0.0	0.7
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°	2.9	2.2	2.2	2.2	2.2
65°	2.2	2.2	1.5	1.5	2.2



(END OF REPORT)