

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: P283809

Luminaire Tested: **LDA2B058035D010 EU2B05WFL558035 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283809
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-61)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B058035D010 EU2B05WFL558035 2LBAPINSQ1MB
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in Adj SQ PinHole, MB

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 720.6 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.68
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

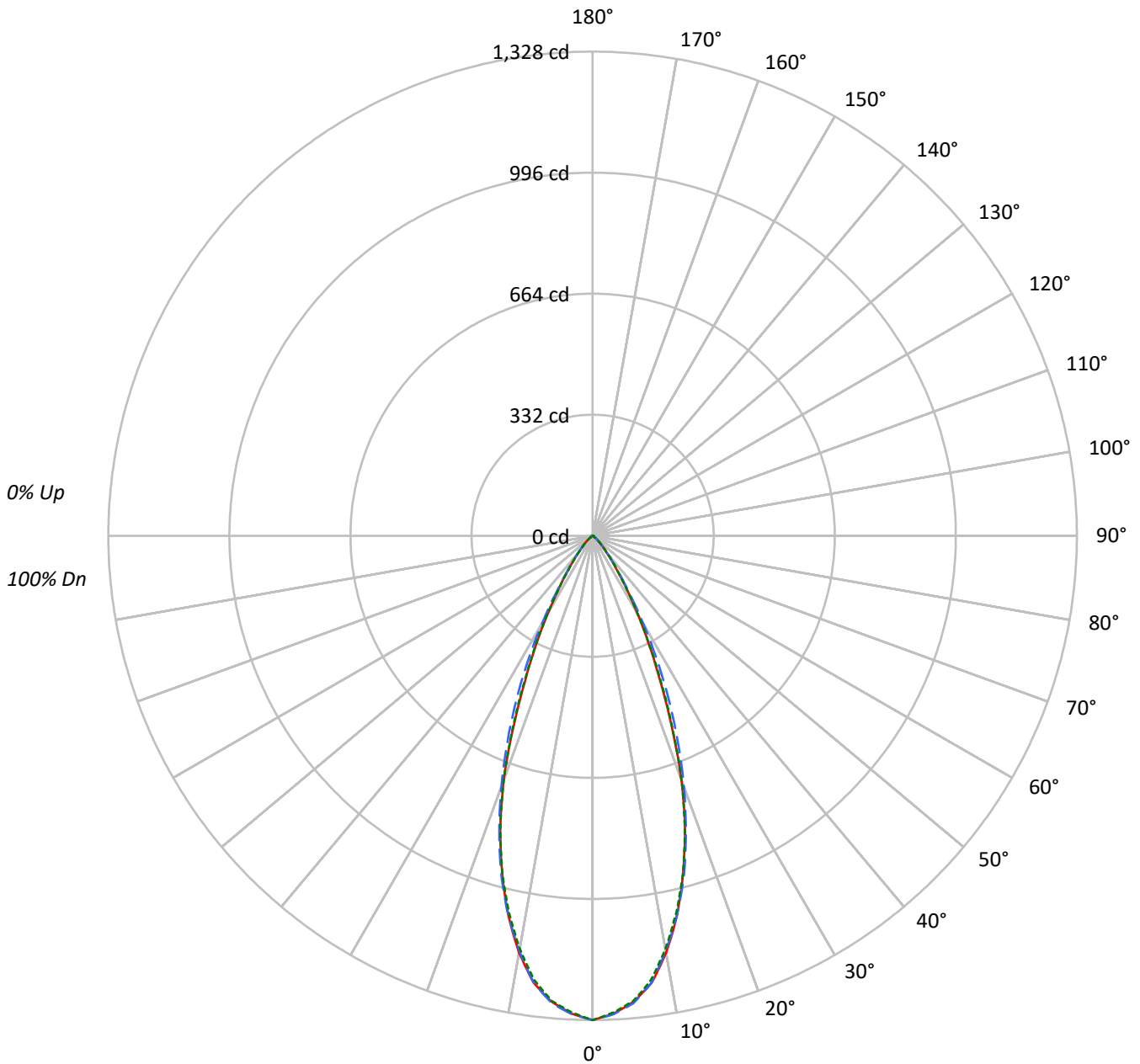
Input Watts (W): 7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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																			
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94																			
2	109	104	101	98	107	103	99	96	100	97	94	97	94	92	94	92	90	89																			
3	104	98	94	90	102	97	93	89	94	91	88	92	89	87	90	87	85	84																			
4	100	93	88	84	98	92	87	83	90	86	82	88	84	81	86	83	81	79																			
5	95	88	82	79	94	87	82	78	85	81	78	83	80	77	82	79	76	75																			
6	91	83	78	74	90	82	77	74	81	77	73	80	76	73	78	75	72	71																			
7	87	79	74	70	86	78	73	70	77	73	69	76	72	69	75	71	69	67																			
8	84	75	70	66	83	75	70	66	74	69	66	73	69	66	72	68	65	64																			
9	81	72	67	63	80	71	66	63	71	66	63	70	66	63	69	65	62	61																			
10	77	69	64	60	76	68	63	60	68	63	60	67	63	60	66	62	60	58																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	655382	655382	655382
5°	635698	637233	634361
10°	581880	579525	576068
15°	489416	493962	488650
20°	374290	384213	373660
25°	237670	267991	242297
30°	138206	156037	140655
35°	73057	77755	73298
40°	38578	40317	38578
45°	21560	22397	21839
50°	10055	12741	10055
55°	3699	6967	3957
60°	4243	4243	4243
65°	4553	5020	4553
70°	5626	5049	5626
75°	5147	5147	5147
80°	5398	4262	5398
85°	4529	4529	4529



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.6	16.5
10°-20°	264.0	36.6
20°-30°	213.2	29.6
30°-40°	84.3	11.7
40°-50°	25.9	3.6
50°-60°	6.7	0.9
60°-70°	4.1	0.6
70°-80°	3.0	0.4
80°-90°	0.9	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°	595.8	82.7
0°-40°	680.1	94.4
0°-60°	712.7	98.9
0°-90°	720.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	720.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1328	1328	1328	1328	1328	
5°	1284	1286	1287	1284	1281	119
15°	958	961	967	963	957	263
25°	437	458	492	466	445	203
35°	121	125	129	125	122	81
45°	31	31	32	32	31	25
55°	4	6	8	6	5	5
65°	4	4	4	4	4	4
75°	3	3	3	3	3	3
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1328.4	1328.4	1328.4	1328.4	1328.4
2.5°	1311.8	1312.5	1313.7	1312.2	1308.3
5°	1283.6	1285.9	1286.7	1284.0	1280.9
7.5°	1237.2	1234.5	1236.8	1232.2	1228.3
10°	1161.5	1158.0	1156.8	1149.9	1149.9
12.5°	1068.0	1066.8	1067.6	1064.1	1058.7
15°	958.2	960.9	967.1	963.3	956.7
17.5°	841.9	845.8	851.2	850.0	841.2
20°	712.9	724.1	731.8	724.5	711.7
22.5°	566.1	590.0	609.7	594.3	573.4
25°	436.6	457.5	492.3	466.0	445.1
27.5°	331.1	346.2	377.9	352.0	337.7
30°	242.6	251.9	273.9	256.9	246.9
32.5°	173.5	180.1	189.3	179.3	174.3
35°	121.3	124.8	129.1	125.2	121.7
37.5°	85.4	86.6	89.6	86.6	85.0
40°	59.9	60.3	62.6	60.7	59.9
42.5°	43.3	43.3	44.4	43.7	43.3
45°	30.9	31.3	32.1	31.7	31.3
47.5°	22.0	22.8	22.8	23.2	21.6
50°	13.1	16.2	16.6	16.2	13.1
52.5°	7.0	9.7	12.0	9.7	7.0
55°	4.3	5.8	8.1	5.8	4.6
57.5°	4.3	4.3	5.4	4.6	4.3
60°	4.3	4.3	4.3	4.3	4.3
62.5°	4.3	4.3	4.3	4.3	4.3
65°	3.9	4.3	4.3	4.3	3.9
67.5°	3.9	3.9	3.9	3.9	3.9
70°	3.9	3.9	3.5	3.9	3.9
72.5°	3.5	3.5	3.1	3.5	3.5
75°	2.7	2.7	2.7	2.7	2.7
77.5°	2.3	2.3	2.3	2.3	2.3
80°	1.9	1.9	1.5	1.9	1.9
82.5°	1.2	1.2	1.2	1.2	1.2
85°	0.8	0.8	0.8	0.8	0.8
87.5°	0.4	0.4	0.4	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)