

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: P282136

Luminaire Tested: **LDA2B058040D010 EU2B05NFL258040 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282136
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: LDA2B058040D010 EU2B05NFL258040 2LBAPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ PinHole, MMS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 760.8 lumens
Efficiency: N/A
Efficacy: 108.7 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

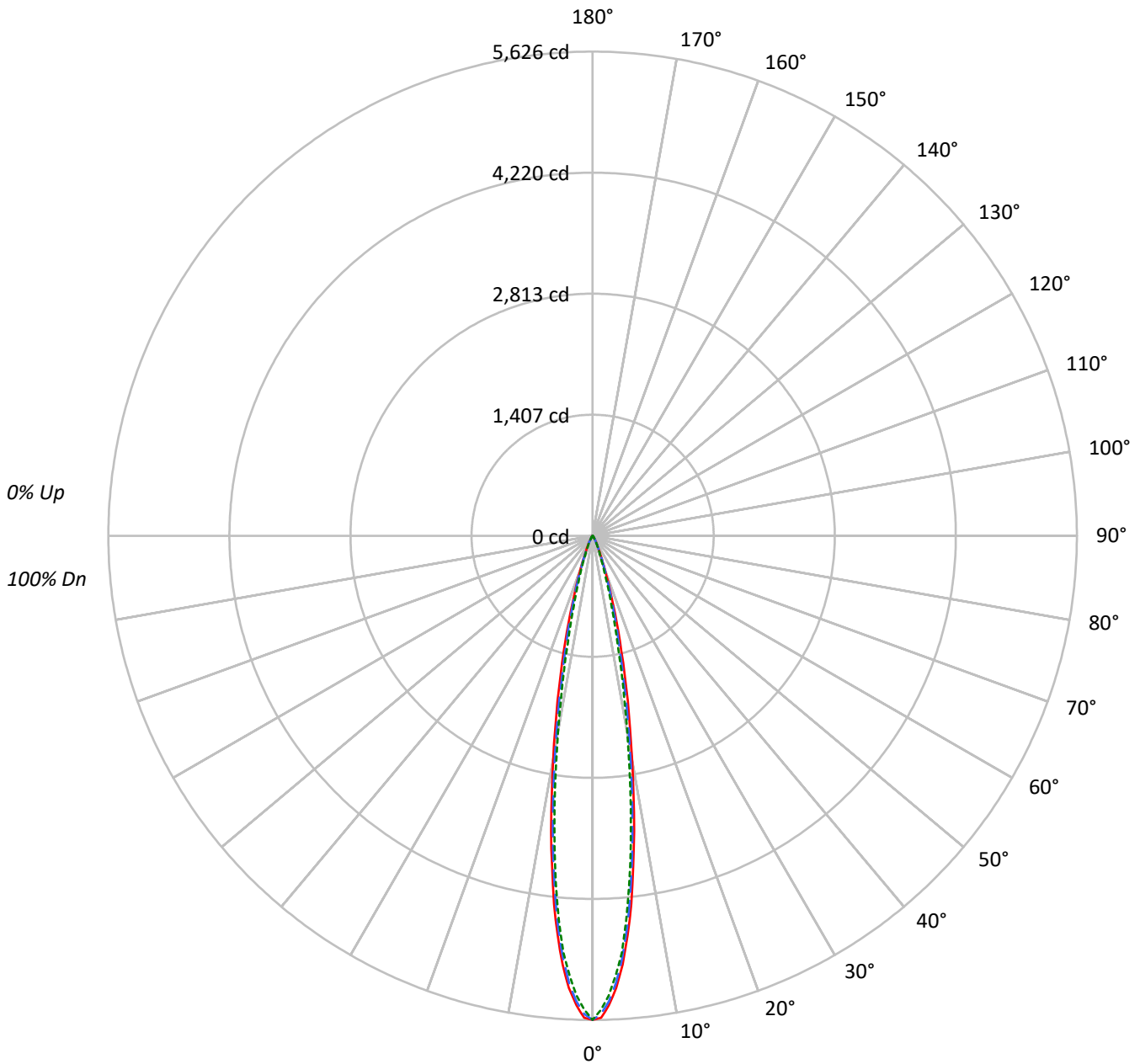
Input Watts (W): 7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2775505	2775505	2775505
5°	2309482	2267188	2221378
10°	1322868	1241360	1158549
15°	588351	522564	437879
20°	213423	200664	158977
25°	81981	76538	65923
30°	35320	32871	29168
35°	16743	16743	13853
40°	8372	8695	6956
45°	4814	4535	4256
50°	3300	2993	2993
55°	2580	1892	2236
60°	2171	1283	1677
65°	1518	1051	1518
70°	1298	577	1298
75°	762	762	762
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	365.9	48.1
10°-20°	296.1	38.9
20°-30°	71.4	9.4
30°-40°	18.2	2.4
40°-50°	5.4	0.7
50°-60°	2.3	0.3
60°-70°	1.1	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°	733.4	96.4
0°-40°	751.6	98.8
0°-60°	759.3	99.8
0°-90°	760.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	760.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5626	5626	5626	5626	5626	
5°	4663	4620	4578	4538	4485	377
15°	1152	1125	1023	922	857	328
25°	151	151	141	128	121	78
35°	28	28	28	25	23	19
45°	7	7	6	6	6	6
55°	3	3	2	2	3	3
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°	5625.7	5625.7	5625.7	5625.7	5625.7
1°	5600.5	5561.5	5556.7	5581.0	5509.4
2°	5457.3	5429.6	5413.5	5427.8	5346.7
3°	5260.8	5233.9	5204.8	5205.2	5114.6
4°	4993.1	4971.8	4922.8	4908.0	4855.5
5°	4663.3	4620.4	4577.9	4537.9	4485.4
6°	4298.9	4243.3	4182.6	4123.2	4069.3
7°	3870.2	3833.3	3753.1	3671.9	3626.4
8°	3467.1	3407.7	3314.0	3212.4	3173.8
9°	3033.7	2991.2	2883.6	2765.5	2726.9
10°	2640.6	2596.3	2477.9	2346.4	2312.6
11°	2271.8	2230.1	2106.9	1968.9	1932.9
12°	1959.8	1900.8	1759.4	1639.6	1604.5
13°	1649.2	1608.8	1474.8	1356.3	1288.2
14°	1384.9	1351.5	1230.0	1125.9	1053.9
15°	1151.9	1124.6	1023.1	921.6	857.3
16°	945.0	928.1	847.8	749.7	697.2
17°	766.7	751.0	699.8	609.6	565.3
18°	619.1	617.0	574.5	496.4	456.9
19°	509.4	508.5	469.5	403.9	371.4
20°	406.5	412.2	382.2	325.0	302.8
21°	331.5	334.5	310.7	267.3	247.3
22°	269.9	272.0	256.4	220.8	210.0
23°	221.3	222.6	209.6	183.1	173.6
24°	182.2	183.1	171.4	152.7	144.5
25°	150.6	151.4	140.6	127.6	121.1
26°	125.0	125.8	116.3	107.2	100.7
27°	103.7	105.4	95.9	90.2	83.3
28°	88.5	88.9	80.3	76.8	70.3
29°	72.5	75.1	67.7	64.6	59.9
30°	62.0	63.3	57.7	55.5	51.2
32.5°	41.2	42.1	39.5	37.7	34.3
35°	27.8	28.2	27.8	25.2	23.0
37.5°	19.1	19.1	19.5	16.5	15.6
40°	13.0	13.0	13.5	11.3	10.8
42.5°	9.5	9.5	9.1	7.8	7.8
45°	6.9	6.9	6.5	6.1	6.1
47.5°	5.6	5.2	4.8	4.8	4.8
50°	4.3	4.3	3.9	3.5	3.9
52.5°	3.5	3.5	3.0	3.0	3.0
55°	3.0	2.6	2.2	2.2	2.6
57.5°	2.2	2.2	1.7	1.7	2.2
60°	2.2	1.7	1.3	1.7	1.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1.3	0.9	0.9	0.9	0.9
70°	0.9	0.9	0.4	0.4	0.9
72.5°	0.4	0.4	0.4	0.4	0.4
75°	0.4	0.4	0.4	0.4	0.4
77.5°	0.4	0.4	0.0	0.0	0.4
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°	1.7	1.3	1.3	1.3	1.3
65°	1.3	1.3	0.9	0.9	1.3



(END OF REPORT)