

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: P282633

Luminaire Tested: **LDA2B058050D010 EU2B05NFL258050 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282633
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: LDA2B058050D010 EU2B05NFL258050 2LBALPINSQ1MB
Description: PORTFOLIO 2IN ADJ 500 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: 694.3 lumens
Efficiency: N/A
Efficacy: 99.2 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

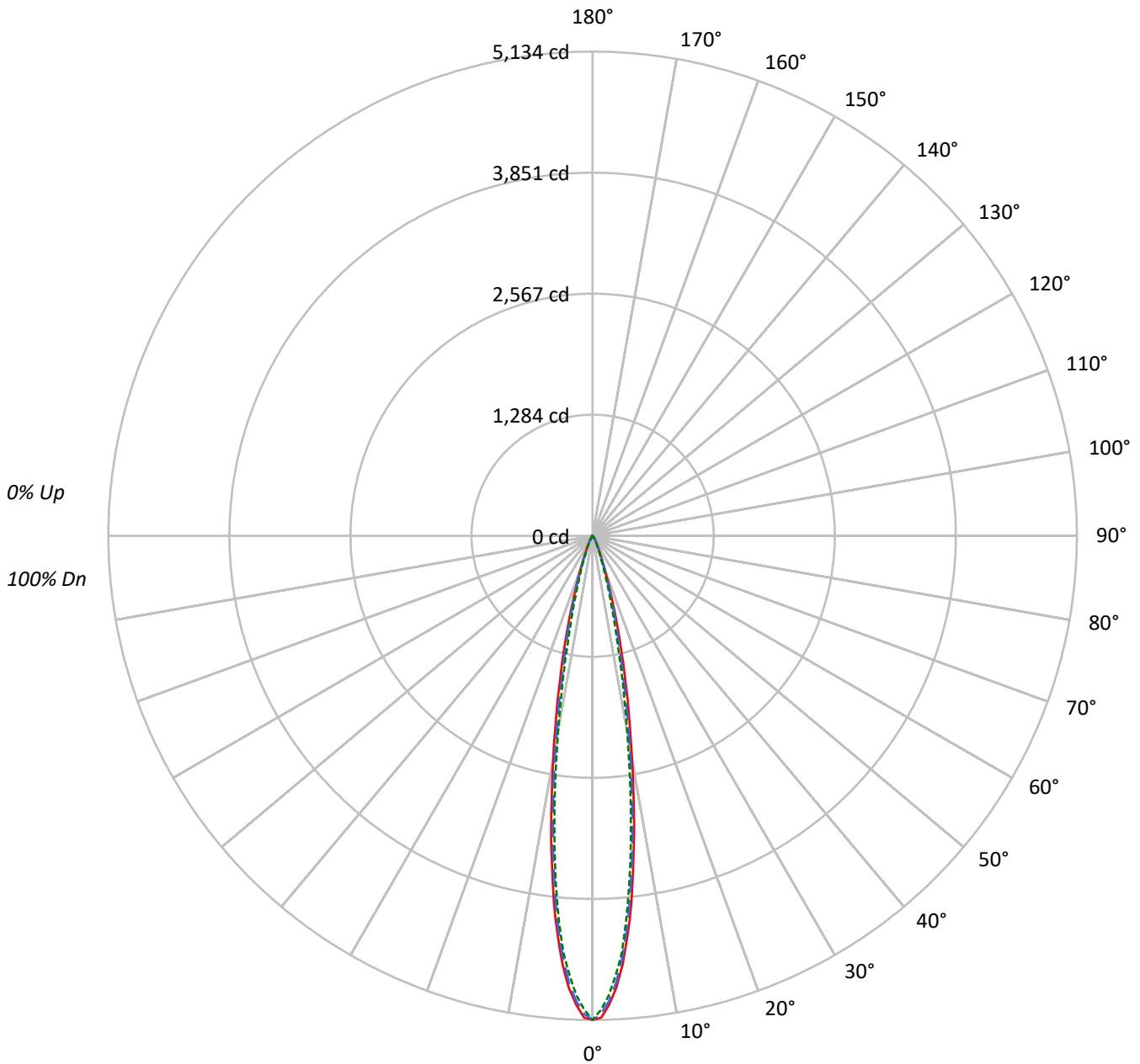
Input Watts (W): 7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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	84	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°	2532722	2532722	2532722
5°	2107471	2068842	2027093
10°	1207144	1132749	1057203
15°	536917	476851	399623
20°	194784	183129	145117
25°	74796	69842	60152
30°	32244	30022	26604
35°	15238	15238	12648
40°	7664	7922	6376
45°	4396	4117	3837
50°	3070	2763	2763
55°	2408	1720	2064
60°	1973	1184	1579
65°	1401	934	1401
70°	1154	577	1154
75°	762	762	762
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	333.9	48.1
10°-20°	270.2	38.9
20°-30°	65.2	9.4
30°-40°	16.6	2.4
40°-50°	5.0	0.7
50°-60°	2.1	0.3
60°-70°	1.0	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°	669.2	96.4
0°-40°	685.8	98.8
0°-60°	692.9	99.8
0°-90°	694.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	694.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5134	5134	5134	5134	5134	
5°	4255	4216	4177	4141	4093	344
15°	1051	1026	934	841	782	300
25°	137	138	128	116	110	71
35°	25	26	25	23	21	17
45°	6	6	6	6	6	5
55°	3	2	2	2	2	2
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°	5133.6	5133.6	5133.6	5133.6	5133.6
1°	5110.6	5075.0	5070.6	5092.8	5027.5
2°	4980.0	4954.6	4940.0	4953.1	4879.0
3°	4800.6	4776.1	4749.5	4749.9	4667.2
4°	4556.3	4536.9	4492.2	4478.7	4430.8
5°	4255.4	4216.2	4177.4	4141.0	4093.1
6°	3922.8	3872.2	3816.7	3762.5	3713.4
7°	3531.7	3498.0	3424.8	3350.7	3309.2
8°	3163.9	3109.6	3024.1	2931.4	2896.2
9°	2768.3	2729.5	2631.3	2523.6	2488.4
10°	2409.6	2369.2	2261.1	2141.2	2110.3
11°	2073.1	2035.1	1922.6	1796.7	1763.9
12°	1788.4	1734.6	1605.5	1496.2	1464.1
13°	1504.9	1468.1	1345.8	1237.7	1175.5
14°	1263.8	1233.3	1122.5	1027.4	961.7
15°	1051.2	1026.2	933.6	841.0	782.4
16°	862.3	846.9	773.6	684.2	636.3
17°	699.6	685.4	638.6	556.3	515.9
18°	565.0	563.0	524.2	452.9	416.9
19°	464.8	464.0	428.4	368.6	338.9
20°	371.0	376.1	348.8	296.5	276.4
21°	302.5	305.3	283.5	243.9	225.7
22°	246.3	248.2	234.0	201.5	191.6
23°	201.9	203.1	191.2	167.1	158.4
24°	166.3	167.1	156.4	139.4	131.8
25°	137.4	138.2	128.3	116.4	110.5
26°	114.0	114.8	106.1	97.8	91.9
27°	94.6	96.2	87.5	82.4	76.0
28°	80.8	81.2	73.2	70.1	64.1
29°	66.1	68.5	61.8	59.0	54.6
30°	56.6	57.8	52.7	50.7	46.7
32.5°	37.6	38.4	36.0	34.4	31.3
35°	25.3	25.7	25.3	23.0	21.0
37.5°	17.4	17.4	17.8	15.0	14.3
40°	11.9	11.9	12.3	10.3	9.9
42.5°	8.7	8.7	8.3	7.1	7.1
45°	6.3	6.3	5.9	5.5	5.5
47.5°	5.1	4.8	4.4	4.4	4.4
50°	4.0	4.0	3.6	3.2	3.6
52.5°	3.2	3.2	2.8	2.8	2.8
55°	2.8	2.4	2.0	2.0	2.4
57.5°	2.0	2.0	1.6	1.6	2.0
60°	2.0	1.6	1.2	1.6	1.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1.2	0.8	0.8	0.8	0.8
70°	0.8	0.8	0.4	0.4	0.8
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°	1.6	1.2	1.2	1.2	1.2
65°	1.2	1.2	0.8	0.8	1.2



(END OF REPORT)