

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: P282142

Luminaire Tested: **LDA2B058050D010 EU2B05NFL258050 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282142
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 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: 755.9 lumens
Efficiency: N/A
Efficacy: 108.0 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

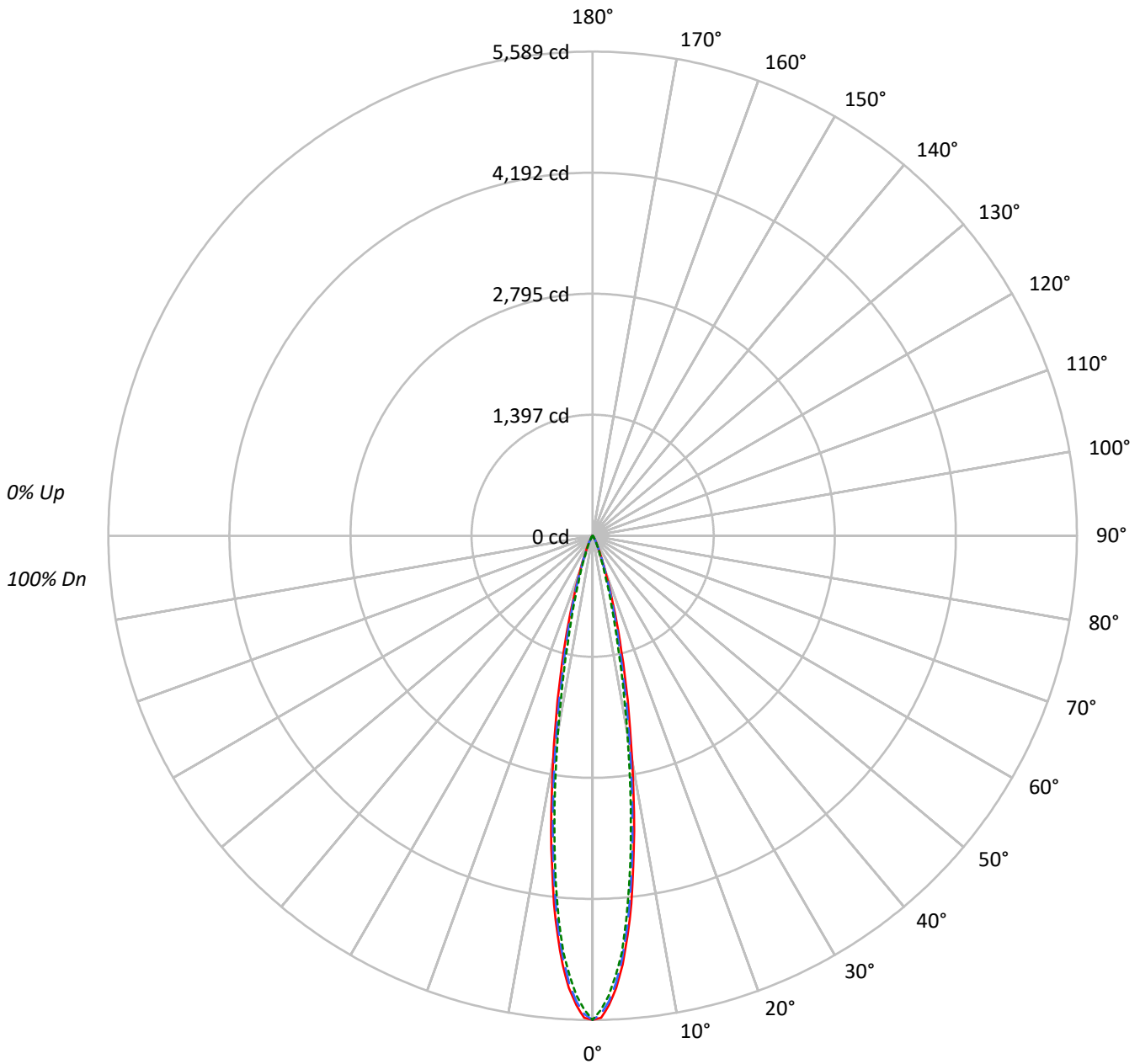
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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°	2757399	2757399	2757399
5°	2294427	2252380	2206917
10°	1314252	1233244	1150985
15°	584520	519142	435070
20°	212057	199404	157980
25°	81437	76048	65487
30°	35093	32643	28997
35°	16623	16623	13732
40°	8308	8630	6956
45°	4814	4535	4186
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°	363.5	48.1
10°-20°	294.2	38.9
20°-30°	70.9	9.4
30°-40°	18.1	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°	728.6	96.4
0°-40°	746.7	98.8
0°-60°	754.4	99.8
0°-90°	755.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	755.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5589	5589	5589	5589	5589	
5°	4633	4590	4548	4508	4456	375
15°	1144	1117	1016	916	852	326
25°	150	150	140	127	120	77
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°	5589.0	5589.0	5589.0	5589.0	5589.0
1°	5564.0	5525.2	5520.5	5544.6	5473.5
2°	5421.7	5394.2	5378.2	5392.4	5311.8
3°	5226.5	5199.8	5170.9	5171.3	5081.2
4°	4960.5	4939.4	4890.7	4876.0	4823.9
5°	4632.9	4590.3	4548.0	4508.4	4456.2
6°	4270.8	4215.7	4155.3	4096.3	4042.8
7°	3845.0	3808.3	3728.6	3648.0	3602.7
8°	3444.5	3385.5	3292.4	3191.5	3153.1
9°	3013.9	2971.7	2864.8	2747.5	2709.2
10°	2623.4	2579.4	2461.7	2331.1	2297.5
11°	2257.0	2215.6	2093.2	1956.1	1920.3
12°	1947.1	1888.4	1747.9	1628.9	1594.0
13°	1638.4	1598.3	1465.1	1347.5	1279.8
14°	1375.9	1342.7	1222.0	1118.6	1047.0
15°	1144.4	1117.3	1016.4	915.6	851.8
16°	938.8	922.0	842.3	744.9	692.7
17°	761.7	746.1	695.3	605.6	561.7
18°	615.1	613.0	570.7	493.1	453.9
19°	506.1	505.2	466.4	401.3	369.0
20°	403.9	409.5	379.8	322.9	300.9
21°	329.3	332.3	308.6	265.5	245.7
22°	268.1	270.3	254.8	219.4	208.6
23°	219.8	221.1	208.2	181.9	172.4
24°	181.0	181.9	170.3	151.7	143.5
25°	149.6	150.4	139.7	126.7	120.3
26°	124.1	125.0	115.5	106.5	100.0
27°	103.0	104.7	95.3	89.7	82.8
28°	87.9	88.4	79.7	76.3	69.8
29°	72.0	74.6	67.2	64.2	59.5
30°	61.6	62.9	57.3	55.2	50.9
32.5°	40.9	41.8	39.2	37.5	34.1
35°	27.6	28.0	27.6	25.0	22.8
37.5°	19.0	19.0	19.4	16.4	15.5
40°	12.9	12.9	13.4	11.2	10.8
42.5°	9.5	9.5	9.1	7.8	7.8
45°	6.9	6.9	6.5	6.0	6.0
47.5°	5.6	5.2	4.7	4.7	4.7
50°	4.3	4.3	3.9	3.4	3.9
52.5°	3.4	3.4	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)