

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: P281533

Luminaire Tested: **LDA2B158035D010 EU2B15SP158035 2LBASQC1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P281533
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1808-908-6)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B158035D010 EU2B15SP158035 2LBASQC1MB
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH SPOT OPTIC AND 2in Adj SQ Cast Trim, MB
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1455.5 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.31 / 0.29
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

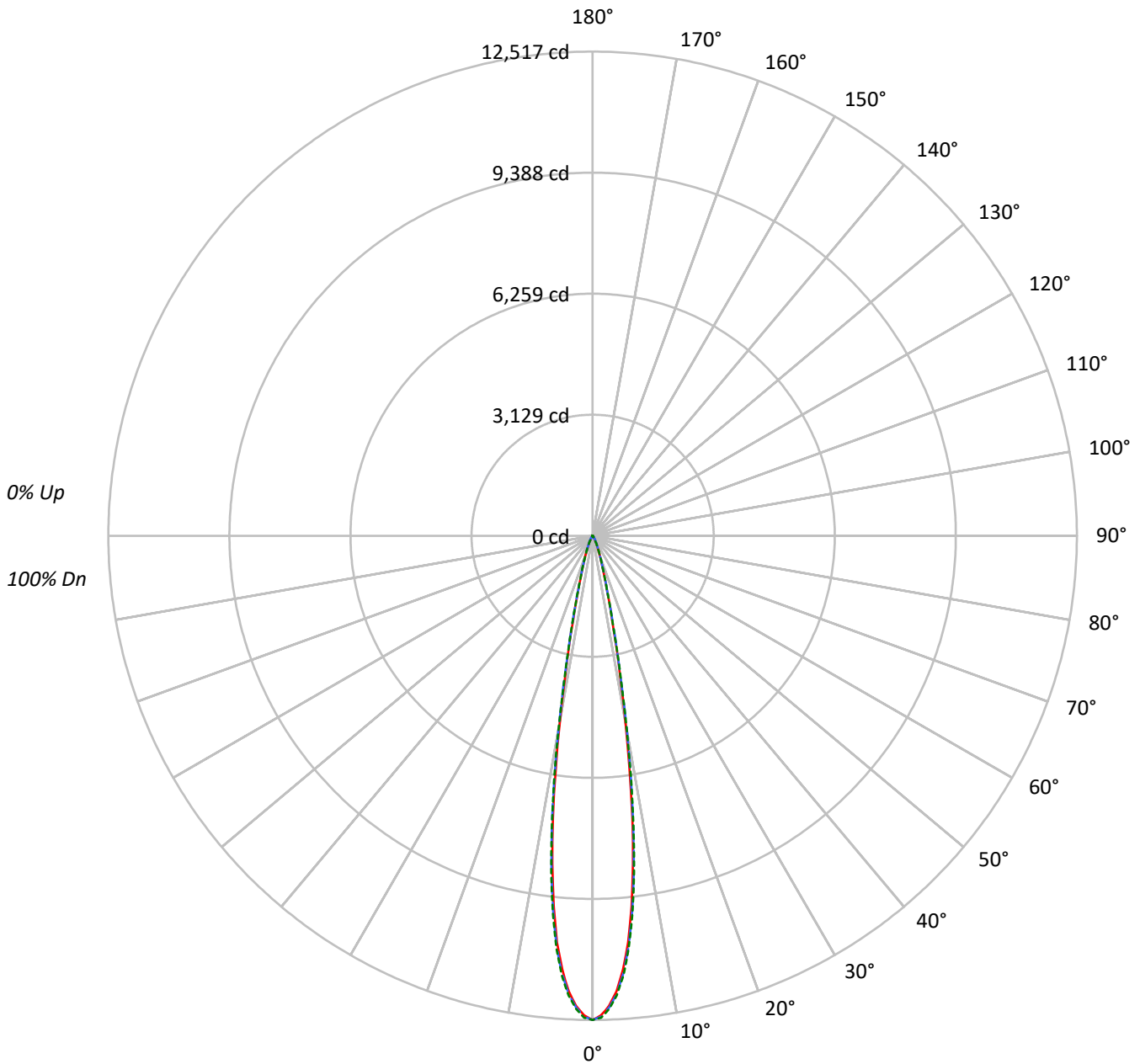
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	116	114	112	111	113	112	110	109	108	107	106	104	103	102	101	100	99	98	98	98	98																
2	113	109	107	105	111	108	105	103	105	103	101	102	100	99	99	98	97	96	96	96	96																
3	110	106	103	100	108	104	102	99	102	100	98	100	98	96	98	96	95	94	94	94	94																
4	107	103	99	97	106	102	99	96	100	97	95	98	96	94	96	95	93	92	92	92	92																
5	105	100	96	94	103	99	96	93	98	95	93	96	94	92	95	93	91	90	90	90	90																
6	103	97	94	91	101	97	94	91	96	93	91	94	92	90	93	91	90	89	89	89	89																
7	100	95	92	89	100	95	91	89	94	91	89	93	90	88	92	90	88	87	87	87	87																
8	99	93	90	88	98	93	90	87	92	89	87	91	89	87	90	88	86	86	86	86	86																
9	97	91	88	86	96	91	88	86	90	88	86	90	87	85	89	87	85	84	84	84	84																
10	95	90	87	84	94	89	86	84	89	86	84	88	86	84	88	85	84	83	83	83	83																

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6175360	6175360	6175360
5°	5226731	5281357	5304336
10°	2444095	2536725	2541635
15°	715838	726258	725900
20°	287451	287819	288239
25°	128198	141208	131246
30°	54462	74857	49677
35°	24995	34692	23308
40°	8179	13589	7213
45°	0	4884	0
50°	0	0	0
55°	2408	1204	0
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	3978	0	0
85°	7925	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	827.2	56.8
10°-20°	468.8	32.2
20°-30°	122.4	8.4
30°-40°	31.6	2.2
40°-50°	3.1	0.2
50°-60°	1.0	0.1
60°-70°	0.2	0.0
70°-80°	1.0	0.1
80°-90°	0.3	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°	1418.5	97.5
0°-40°	1450.0	99.6
0°-60°	1454.1	99.9
0°-90°	1455.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1455.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12517	12517	12517	12517	12517	
5°	10554	10648	10664	10597	10710	817
15°	1402	1420	1422	1406	1421	460
25°	236	255	259	247	241	117
35°	42	44	58	39	39	28
45°	0	3	7	1	0	2
55°	3	4	1	1	0	2
65°	0	0	0	0	0	1
75°	0	1	0	0	0	3
85°	1	0	0	0	0	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12516.9	12516.9	12516.9	12516.9	12516.9
1°	12399.5	12448.8	12434.0	12416.4	12465.6
2°	12160.6	12208.4	12204.1	12181.0	12238.6
3°	11792.3	11859.0	11859.0	11824.6	11896.3
4°	11243.3	11345.2	11355.1	11306.6	11395.8
5°	10553.8	10648.0	10664.1	10596.7	10710.5
6°	9619.6	9748.3	9784.8	9706.8	9823.5
7°	8546.3	8681.3	8736.8	8649.7	8780.4
8°	7388.7	7485.7	7552.5	7452.7	7585.5
9°	6093.3	6233.2	6294.3	6197.3	6326.6
10°	4878.7	5007.3	5063.6	5040.4	5073.4
11°	3789.2	3903.1	3941.1	3909.4	3924.9
12°	2966.9	3012.6	3037.2	3016.1	3026.6
13°	2252.7	2313.9	2325.1	2316.0	2320.9
14°	1759.3	1788.8	1801.5	1797.3	1799.4
15°	1401.5	1420.5	1421.9	1405.8	1421.2
16°	1128.8	1143.6	1149.9	1133.0	1153.4
17°	925.0	936.9	944.0	927.1	935.5
18°	761.2	770.4	780.2	765.4	778.1
19°	638.9	644.5	645.2	641.0	644.5
20°	547.5	544.7	548.2	540.5	549.0
22.5°	360.6	367.6	376.0	366.9	370.4
25°	235.5	255.1	259.4	247.4	241.1
26°	194.0	219.3	230.5	211.6	191.2
27°	161.0	179.2	194.0	168.7	152.5
28°	141.3	156.7	171.5	147.6	128.6
29°	118.1	133.5	158.9	131.4	119.5
30°	95.6	106.8	131.4	99.8	87.2
32.5°	54.1	63.3	85.0	59.0	48.5
35°	41.5	44.3	57.6	39.4	38.7
37.5°	35.8	32.3	45.0	32.3	26.0
40°	12.7	19.0	21.1	14.1	11.2
42.5°	5.6	5.6	9.1	2.8	2.8
45°	0.0	2.8	7.0	0.7	0.0
47.5°	0.0	0.0	1.4	0.0	0.0
50°	0.0	1.4	0.0	0.0	0.0
52.5°	1.4	0.0	0.0	0.0	0.0
55°	2.8	3.5	1.4	0.7	0.0
57.5°	4.2	3.5	1.4	1.4	1.4
60°	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0
67.5°	1.4	0.7	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
75°	0.0	0.7	0.0	0.0	0.0
77.5°	7.0	1.4	2.1	1.4	2.8
80°	1.4	0.0	0.0	0.0	0.0
82.5°	2.8	0.0	0.0	0.0	0.0
85°	1.4	0.0	0.0	0.0	0.0
87.5°	0.0	0.7	0.0	0.7	0.0
90°	0.0	0.0	0.0	0.0	0.0



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







70°	0.0	0.0	0.0	0.0	0.0
72.5°	2.8	2.1	0.0	0.0	2.8



(END OF REPORT)