

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: P281466

Luminaire Tested: **LDA2B059035D010 EU2B05SP159035 2LBASQC1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P281466
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: LDA2B059035D010 EU2B05SP159035 2LBASQC1MW
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH SPOT OPTIC AND 2in Adj SQ Cast Trim, MW
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 666.8 lumens
Efficiency: N/A
Efficacy: 95.3 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

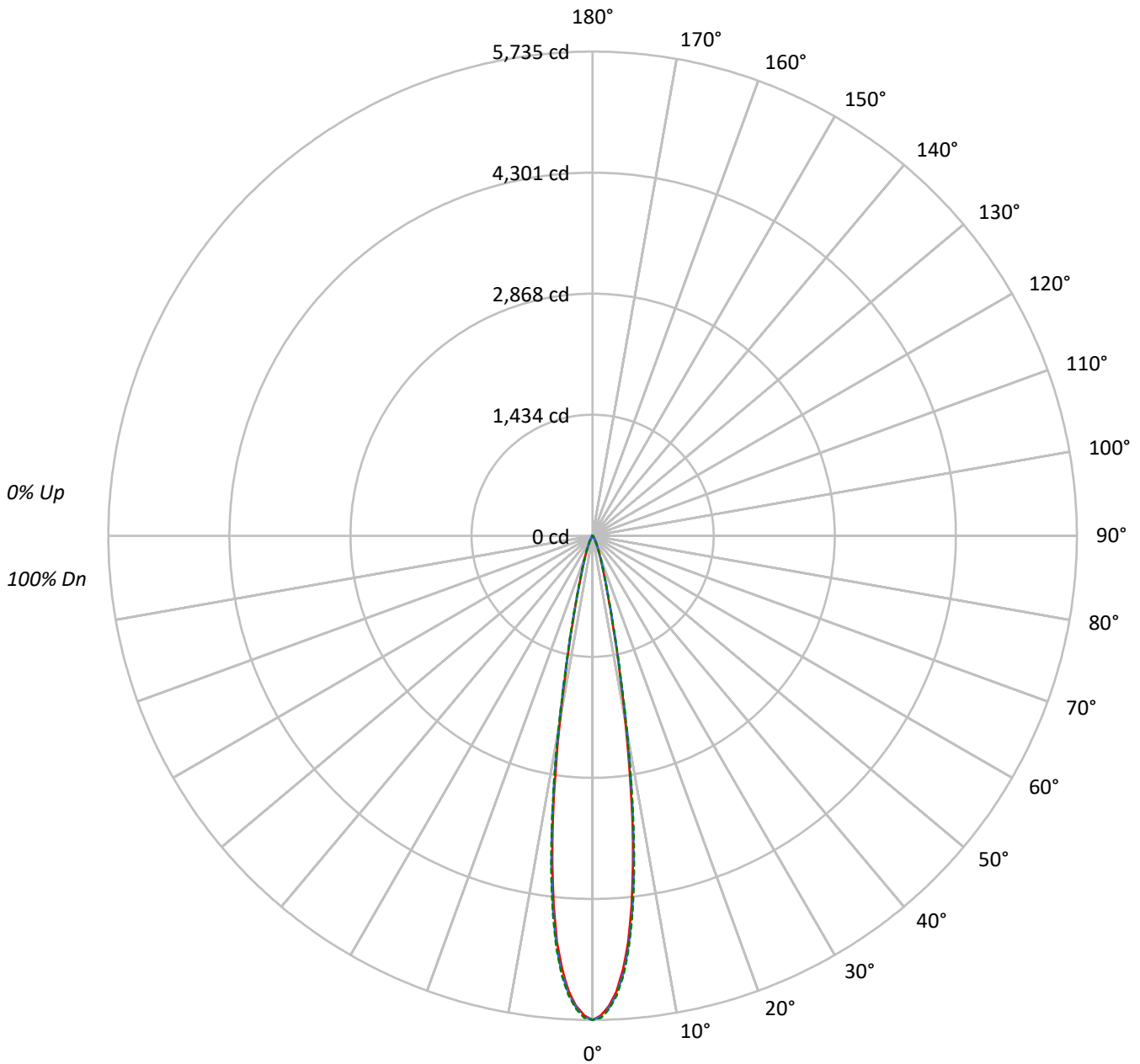
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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																			
1	116	114	112	111	113	112	110	109	108	107	106	104	103	102	101	100	99	98	97	96	98																
2	113	109	107	105	111	108	105	103	105	103	101	102	100	99	99	98	97	96	95	94	96																
3	110	106	103	100	108	104	102	99	102	100	98	100	98	96	98	96	95	94	93	92	94																
4	107	103	99	97	106	102	99	96	100	97	95	98	96	94	96	95	93	92	91	90	92																
5	105	100	96	94	103	99	96	93	98	95	93	96	94	92	95	93	91	90	89	87	89																
6	103	97	94	91	101	97	94	91	96	93	91	94	92	90	93	91	90	89	88	87	89																
7	101	95	92	89	100	95	91	89	94	91	89	93	90	88	92	90	88	87	86	85	87																
8	99	93	90	88	98	93	90	87	92	89	87	91	89	87	90	88	87	86	85	84	86																
9	97	91	88	86	96	91	88	86	90	88	86	90	87	85	89	87	85	84	83	82	84																
10	95	90	87	84	94	89	86	84	89	86	84	88	86	84	88	85	84	83	82	81	83																

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2829282	2829282	2829282
5°	2394665	2419675	2430223
10°	1119774	1162207	1164461
15°	327963	332764	332560
20°	131729	131886	132044
25°	58737	64671	60152
30°	24952	34295	22730
35°	11443	15900	10660
40°	3735	6247	3349
45°	0	2233	0
50°	0	0	0
55°	1118	516	0
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	1705	0	0
85°	3396	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	379.0	56.8
10°-20°	214.8	32.2
20°-30°	56.1	8.4
30°-40°	14.5	2.2
40°-50°	1.4	0.2
50°-60°	0.4	0.1
60°-70°	0.1	0.0
70°-80°	0.5	0.1
80°-90°	0.1	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°	649.9	97.5
0°-40°	664.3	99.6
0°-60°	666.2	99.9
0°-90°	666.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	666.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5735	5735	5735	5735	5735	
5°	4835	4878	4886	4855	4907	374
15°	642	651	652	644	651	211
25°	108	117	119	113	110	54
35°	19	20	26	18	18	13
45°	0	1	3	0	0	1
55°	1	2	1	0	0	1
65°	0	0	0	0	0	0
75°	0	0	0	0	0	1
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°	5734.7	5734.7	5734.7	5734.7	5734.7
1°	5680.9	5703.5	5696.7	5688.6	5711.2
2°	5571.4	5593.3	5591.4	5580.8	5607.2
3°	5402.7	5433.3	5433.3	5417.5	5450.3
4°	5151.2	5197.9	5202.4	5180.2	5221.1
5°	4835.3	4878.4	4885.8	4854.9	4907.1
6°	4407.3	4466.2	4483.0	4447.2	4500.7
7°	3915.5	3977.4	4002.8	3962.9	4022.8
8°	3385.2	3429.6	3460.2	3414.5	3475.3
9°	2791.7	2855.8	2883.8	2839.3	2898.6
10°	2235.2	2294.1	2319.9	2309.3	2324.4
11°	1736.1	1788.2	1805.6	1791.1	1798.2
12°	1359.3	1380.2	1391.5	1381.8	1386.7
13°	1032.1	1060.1	1065.3	1061.1	1063.3
14°	806.0	819.6	825.4	823.4	824.4
15°	642.1	650.8	651.5	644.1	651.1
16°	517.2	523.9	526.8	519.1	528.4
17°	423.8	429.3	432.5	424.8	428.6
18°	348.8	352.9	357.5	350.7	356.5
19°	292.7	295.3	295.6	293.7	295.3
20°	250.9	249.6	251.2	247.6	251.5
22.5°	165.2	168.4	172.3	168.1	169.7
25°	107.9	116.9	118.8	113.4	110.5
26°	88.9	100.5	105.6	96.9	87.6
27°	73.7	82.1	88.9	77.3	69.9
28°	64.7	71.8	78.6	67.6	58.9
29°	54.1	61.2	72.8	60.2	54.7
30°	43.8	48.9	60.2	45.7	39.9
32.5°	24.8	29.0	39.0	27.1	22.2
35°	19.0	20.3	26.4	18.0	17.7
37.5°	16.4	14.8	20.6	14.8	11.9
40°	5.8	8.7	9.7	6.4	5.2
42.5°	2.6	2.6	4.2	1.3	1.3
45°	0.0	1.3	3.2	0.3	0.0
47.5°	0.0	0.0	0.6	0.0	0.0
50°	0.0	0.6	0.0	0.0	0.0
52.5°	0.6	0.0	0.0	0.0	0.0
55°	1.3	1.6	0.6	0.3	0.0
57.5°	1.9	1.6	0.6	0.6	0.6
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°	0.6	0.3	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
75°	0.0	0.3	0.0	0.0	0.0
77.5°	3.2	0.6	1.0	0.6	1.3
80°	0.6	0.0	0.0	0.0	0.0
82.5°	1.3	0.0	0.0	0.0	0.0
85°	0.6	0.0	0.0	0.0	0.0
87.5°	0.0	0.3	0.0	0.3	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°	1.3	1.0	0.0	0.0	1.3



(END OF REPORT)