

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: P282460

Luminaire Tested: **LDA2B058035D010 EU2B05SP158035 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282460
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1808-908-7)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B058035D010 EU2B05SP158035 2LBALPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH SPOT OPTIC AND 2in Adj SQ Pinhole w-lens, MMS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 805.2 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Spacing Criteria (0/90/45): 0.32 / 0.3 / 0.32
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

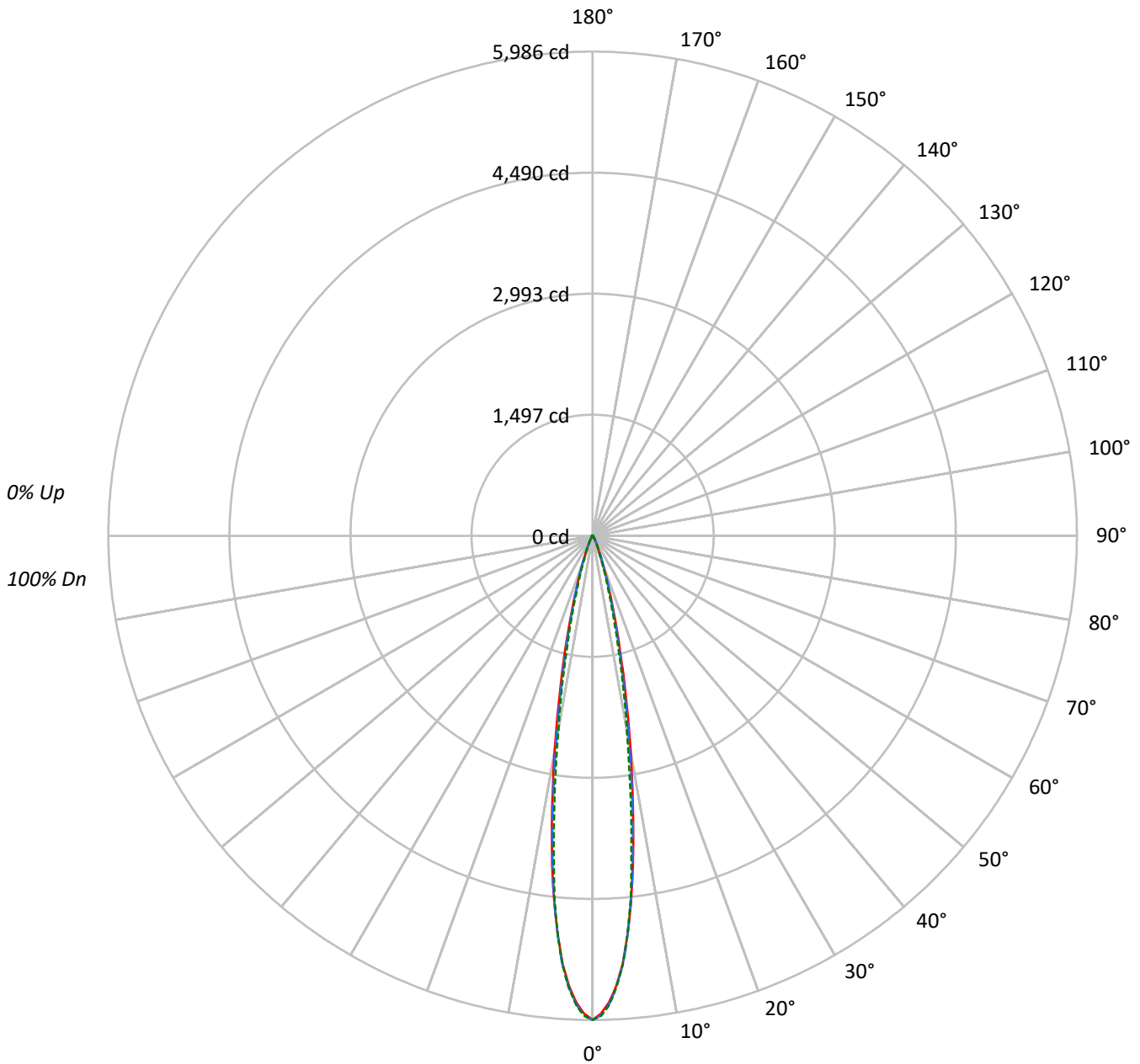
Input Watts (W): 7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	109	113	111	109	107	107	105	104	103	102	101	100	99	98	96	98	98	96	96															
2	111	108	105	102	109	106	103	101	103	101	99	100	98	97	98	96	95	94	98	96	95	94															
3	108	104	100	97	106	102	99	97	100	97	95	98	95	94	96	94	92	91	96	94	92	91															
4	105	100	96	93	104	99	96	93	97	94	92	95	93	91	94	92	90	89	94	92	90	89															
5	102	97	93	90	101	96	93	90	95	91	89	93	90	88	92	89	88	87	92	89	88	87															
6	100	94	90	88	99	94	90	87	92	89	87	91	88	86	90	88	86	85	90	88	86	85															
7	98	92	88	85	97	91	88	85	90	87	85	89	86	84	88	86	84	83	88	86	84	83															
8	96	90	86	83	95	89	86	83	88	85	83	87	85	82	87	84	82	81	87	84	82	81															
9	94	88	84	81	93	87	84	81	86	83	81	86	83	81	85	82	81	80	85	82	81	80															
10	92	86	82	80	91	85	82	80	85	82	79	84	81	79	84	81	79	78	84	81	79	78															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2953214	2953214	2953214
5°	2449984	2457908	2448597
10°	1355983	1306988	1217514
15°	548920	525016	466125
20°	183916	194994	157875
25°	69951	70223	66467
30°	31390	30877	29795
35°	15178	13551	10781
40°	10047	12688	8888
45°	2582	4186	3837
50°	691	1075	1382
55°	6279	5505	8688
60°	9078	7203	11742
65°	4319	11207	10740
70°	4039	3318	4039
75°	1716	4384	12200
80°	20740	28696	26139
85°	0	13020	15850



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	392.0	48.7
10°-20°	297.0	36.9
20°-30°	67.5	8.4
30°-40°	20.0	2.5
40°-50°	6.7	0.8
50°-60°	5.8	0.7
60°-70°	7.0	0.9
70°-80°	4.5	0.6
80°-90°	4.7	0.6
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°	756.5	94.0
0°-40°	776.5	96.4
0°-60°	789.0	98.0
0°-90°	805.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	805.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5986	5986	5986	5986	5986	
5°	4947	4986	4963	4898	4944	397
15°	1075	1089	1028	932	913	312
25°	128	138	129	128	122	67
35°	25	28	22	26	18	20
45°	4	11	6	11	6	6
55°	7	11	6	10	10	3
65°	4	8	10	9	9	4
75°	1	3	2	4	6	2
85°	0	0	2	2	3	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5985.9	5985.9	5985.9	5985.9	5985.9
1°	5908.7	5932.6	5930.3	5920.7	5937.7
2°	5772.8	5801.8	5799.0	5777.9	5808.2
3°	5573.6	5599.3	5595.2	5564.9	5597.9
4°	5307.3	5336.7	5325.3	5279.8	5322.0
5°	4947.0	4986.0	4963.0	4898.3	4944.2
6°	4547.6	4580.6	4544.4	4458.5	4503.5
7°	4100.4	4121.1	4073.4	3963.2	3932.9
8°	3612.4	3639.5	3573.0	3444.4	3411.4
9°	3146.0	3155.2	3074.4	2937.6	2895.8
10°	2706.7	2699.8	2608.9	2470.3	2430.3
11°	2290.3	2281.1	2185.2	2057.1	2070.0
12°	1911.6	1929.5	1817.9	1701.8	1704.1
13°	1600.3	1602.2	1506.2	1395.6	1389.2
14°	1310.2	1327.2	1245.0	1145.8	1127.5
15°	1074.7	1089.4	1027.9	931.5	912.6
16°	860.3	878.7	834.6	747.4	722.6
17°	692.7	716.2	687.2	614.2	585.8
18°	554.1	572.0	565.1	489.8	466.4
19°	437.5	462.3	464.1	401.2	373.2
20°	350.3	372.8	371.4	322.7	300.7
22.5°	201.1	213.0	213.5	190.5	177.7
25°	128.5	138.2	129.0	127.6	122.1
26°	111.6	119.4	109.3	109.3	104.2
27°	90.4	97.3	87.7	91.8	84.9
28°	76.2	83.6	75.3	74.4	73.5
29°	63.4	70.2	59.7	64.3	61.5
30°	55.1	60.1	54.2	61.1	52.3
32.5°	42.7	46.8	36.3	45.9	34.4
35°	25.2	28.0	22.5	26.2	17.9
37.5°	26.2	27.1	24.3	27.1	25.2
40°	15.6	16.1	19.7	19.7	13.8
42.5°	14.7	14.2	8.7	13.8	11.0
45°	3.7	10.6	6.0	10.6	5.5
47.5°	2.8	3.7	3.7	7.3	7.3
50°	0.9	3.7	1.4	2.8	1.8
52.5°	0.0	8.7	1.8	6.4	5.5
55°	7.3	10.6	6.4	9.6	10.1
57.5°	0.9	7.3	3.7	7.8	5.5
60°	9.2	12.4	7.3	13.3	11.9
62.5°	0.9	8.3	9.6	7.3	6.4
65°	3.7	7.8	9.6	9.2	9.2
67.5°	4.6	7.8	6.0	6.0	8.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
75°	0.9	3.2	2.3	4.1	6.4
77.5°	0.9	3.7	3.2	7.3	5.5
80°	7.3	8.3	10.1	13.3	9.2
82.5°	6.4	6.4	10.1	7.3	5.5
85°	0.0	0.0	2.3	2.3	2.8
87.5°	0.0	1.8	4.6	3.7	6.4
90°	0.0	0.0	0.0	0.0	0.0



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







70°	2.8	0.9	2.3	2.3	2.8
72.5°	0.9	4.1	3.7	2.3	4.6



(END OF REPORT)