

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: P281442

Luminaire Tested: **LDA2B058027D010 EU2B05SP158027 2LBASQC1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P281442
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: LDA2B058027D010 EU2B05SP158027 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: 781.3 lumens
Efficiency: N/A
Efficacy: 111.6 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

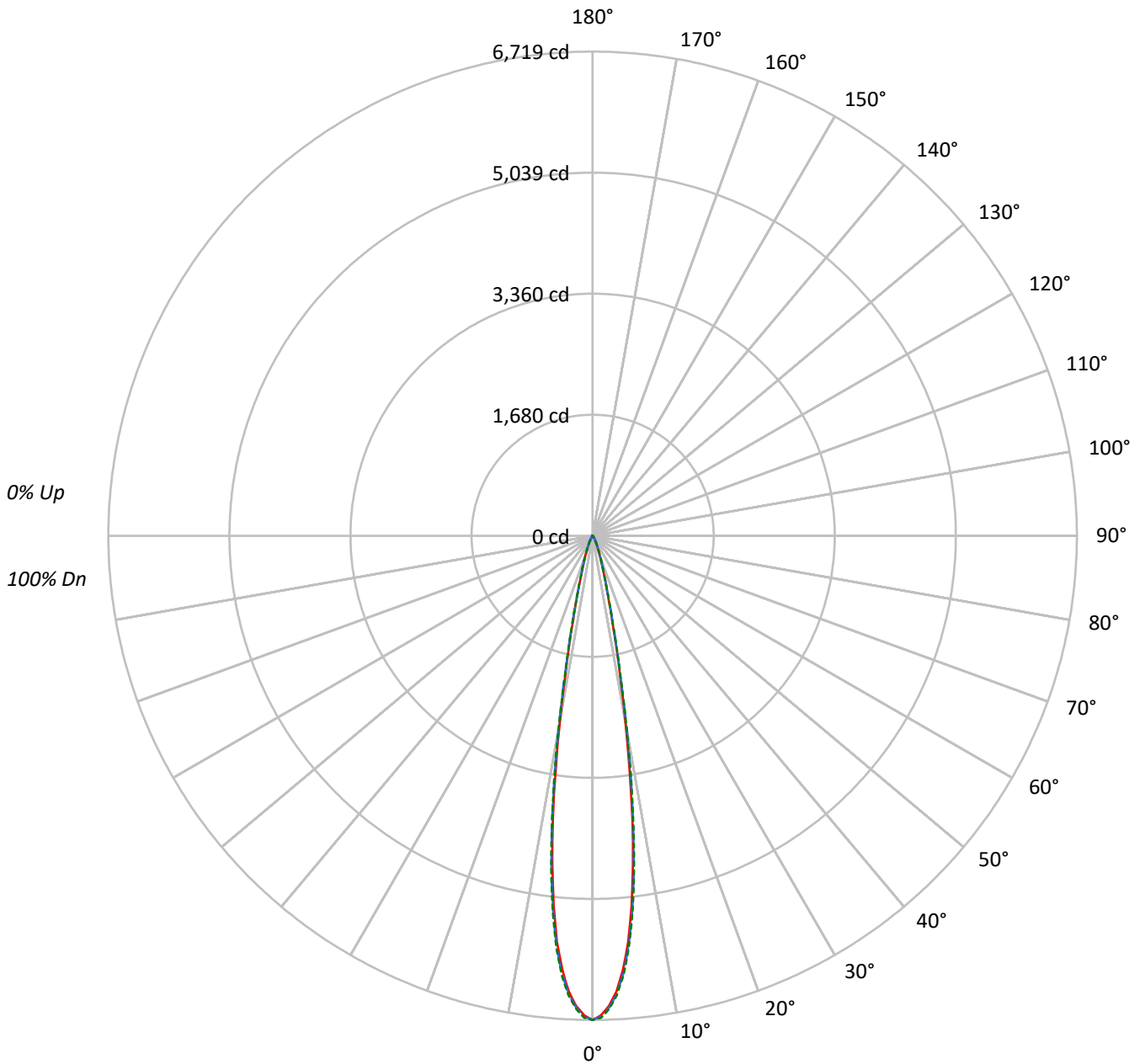
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P281442

CATALOG NUMBER: LDA2B058027D010 EU2B05SP158027 2LBASQC1MW

Luminous Intensity Polar Plot





TEST NUMBER: P281442

CATALOG NUMBER: LDA2B058027D010 EU2B05SP158027 2LBASQC1MW

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	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	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	97	95	93	96	94	92	95	93	91	90	89	88						90											
6	103	97	94	91	101	97	94	91	96	93	91	94	92	90	93	91	90	89	88	87						89											
7	100	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	86	85	84	83						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°	3314750	3314750	3314750
5°	2805571	2834889	2847221
10°	1311947	1361644	1364299
15°	384249	389867	389663
20°	154305	154515	154725
25°	68808	75776	70441
30°	29225	40220	26661
35°	13431	18611	12527
40°	4379	7278	3864
45°	0	2651	0
50°	0	0	0
55°	1290	688	0
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	2273	0	0
85°	4529	0	0



TEST NUMBER: P281442

CATALOG NUMBER: LDA2B058027D010 EU2B05SP158027 2LBASQC1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	444.0	56.8
10°-20°	251.7	32.2
20°-30°	65.7	8.4
30°-40°	16.9	2.2
40°-50°	1.7	0.2
50°-60°	0.6	0.1
60°-70°	0.1	0.0
70°-80°	0.6	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°	761.4	97.4
0°-40°	778.3	99.6
0°-60°	780.6	99.9
0°-90°	781.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	781.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6719	6719	6719	6719	6719	
5°	5665	5716	5724	5688	5749	438
15°	752	762	763	755	763	247
25°	126	137	139	133	129	63
35°	22	24	31	21	21	15
45°	0	2	4	0	0	1
55°	2	2	1	0	0	1
65°	0	0	0	0	0	0
75°	0	0	0	0	0	2
85°	1	0	0	0	0	1
90°	0	0	0	0	0	



TEST NUMBER: P281442

CATALOG NUMBER: LDA2B058027D010 EU2B05SP158027 2LBASQC1MW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6718.7	6718.7	6718.7	6718.7	6718.7
1°	6655.7	6682.1	6674.2	6664.8	6691.2
2°	6527.4	6553.1	6550.8	6538.4	6569.3
3°	6329.7	6365.6	6365.6	6347.1	6385.6
4°	6035.1	6089.8	6095.1	6069.0	6117.0
5°	5665.0	5715.5	5724.2	5688.0	5749.1
6°	5163.6	5232.6	5252.2	5210.3	5273.0
7°	4587.4	4659.9	4689.7	4642.9	4713.1
8°	3966.0	4018.1	4054.0	4000.4	4071.7
9°	3270.7	3345.8	3378.6	3326.5	3396.0
10°	2618.8	2687.8	2718.0	2705.5	2723.3
11°	2034.0	2095.1	2115.4	2098.5	2106.8
12°	1592.5	1617.1	1630.3	1618.9	1624.6
13°	1209.2	1242.0	1248.1	1243.2	1245.8
14°	944.3	960.2	967.0	964.7	965.9
15°	752.3	762.5	763.3	754.6	762.9
16°	605.9	613.8	617.2	608.2	619.1
17°	496.5	502.9	506.7	497.6	502.2
18°	408.6	413.5	418.8	410.9	417.7
19°	343.0	346.0	346.3	344.1	346.0
20°	293.9	292.4	294.3	290.1	294.7
22.5°	193.5	197.3	201.8	196.9	198.8
25°	126.4	137.0	139.2	132.8	129.4
26°	104.1	117.7	123.8	113.6	102.6
27°	86.4	96.2	104.1	90.5	81.9
28°	75.8	84.1	92.1	79.2	69.0
29°	63.4	71.7	85.3	70.6	64.1
30°	51.3	57.3	70.6	53.6	46.8
32.5°	29.1	34.0	45.7	31.7	26.0
35°	22.3	23.8	30.9	21.1	20.8
37.5°	19.2	17.4	24.1	17.4	14.0
40°	6.8	10.2	11.3	7.5	6.0
42.5°	3.0	3.0	4.9	1.5	1.5
45°	0.0	1.5	3.8	0.4	0.0
47.5°	0.0	0.0	0.8	0.0	0.0
50°	0.0	0.8	0.0	0.0	0.0
52.5°	0.8	0.0	0.0	0.0	0.0
55°	1.5	1.9	0.8	0.4	0.0
57.5°	2.3	1.9	0.8	0.8	0.8
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°	0.8	0.4	0.0	0.0	0.0



TEST NUMBER: P281442

CATALOG NUMBER: LDA2B058027D010 EU2B05SP158027 2LBASQC1MW

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
75°	0.0	0.4	0.0	0.0	0.0
77.5°	3.8	0.8	1.1	0.8	1.5
80°	0.8	0.0	0.0	0.0	0.0
82.5°	1.5	0.0	0.0	0.0	0.0
85°	0.8	0.0	0.0	0.0	0.0
87.5°	0.0	0.4	0.0	0.4	0.0
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By E9808895 / USPTCWHP6082093





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







70°	0.0	0.0	0.0	0.0	0.0
72.5°	1.5	1.1	0.0	0.0	1.5



(END OF REPORT)