

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: P283805

Luminaire Tested: **LDA2B058030D010 EU2B05WFL558030 2LBALPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283805
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-61)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B058030D010 EU2B05WFL558030 2LBALPINSQ1MW
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in Adj SQ Pinhole w-lens, MW

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 687.5 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.68
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

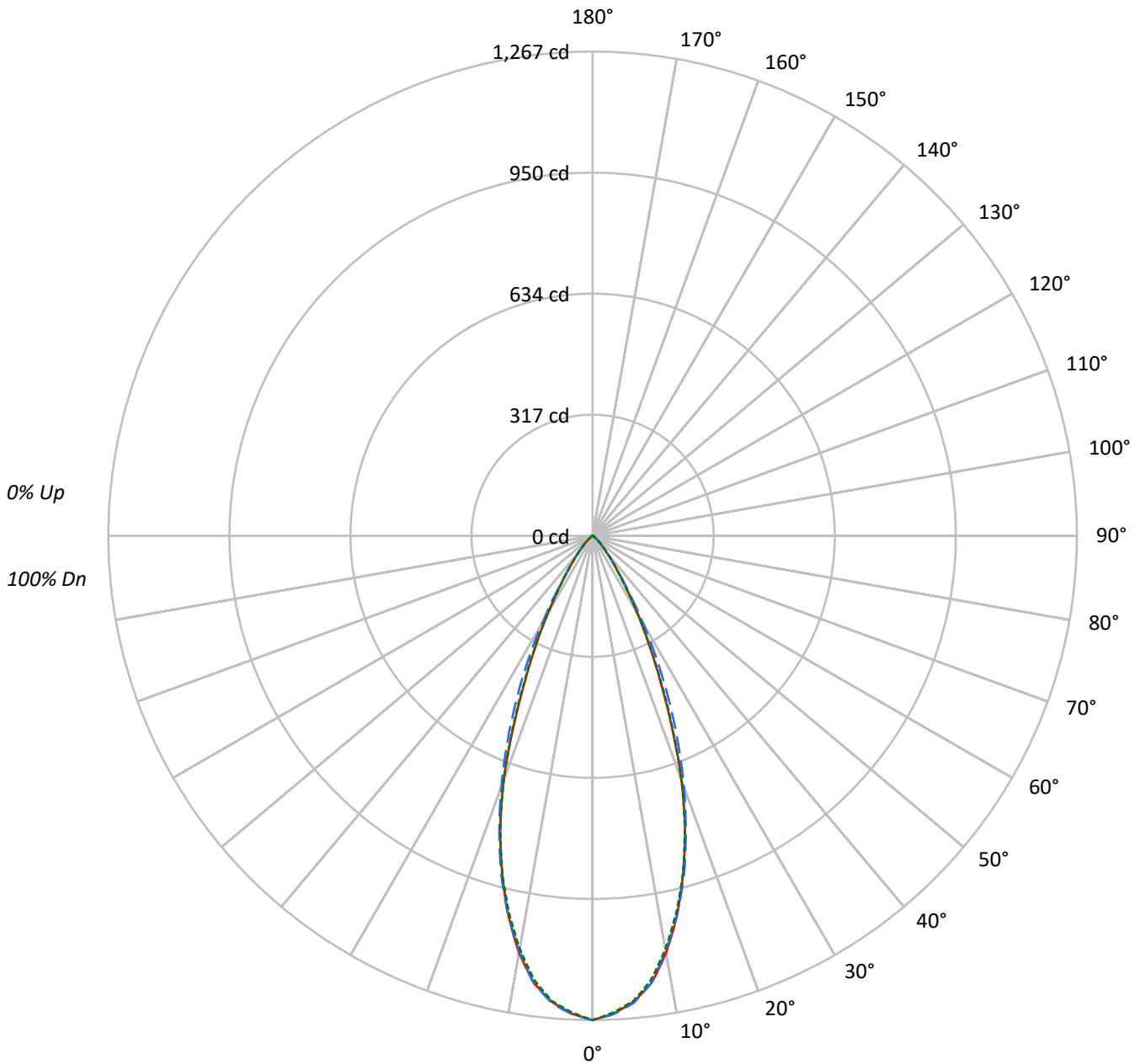
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					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	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94					94			
2	109	104	101	98	107	103	99	96	100	97	94	97	94	92	94	92	90	89					89			
3	104	98	94	90	102	97	93	89	94	91	88	92	89	87	90	87	85	84					84			
4	100	93	88	84	98	92	87	83	90	86	82	88	84	81	86	83	81	79					79			
5	95	88	82	79	94	87	82	78	85	81	78	84	80	77	82	79	76	75					75			
6	91	83	78	74	90	82	77	74	81	77	73	80	76	73	78	75	72	71					71			
7	87	79	74	70	86	78	73	70	77	73	69	76	72	69	75	71	69	67					67			
8	84	75	70	66	83	75	70	66	74	69	66	73	69	66	72	68	65	64					64			
9	81	72	67	63	80	71	66	63	71	66	63	70	66	63	69	65	62	61					61			
10	77	69	64	60	76	68	63	60	68	63	60	67	63	60	66	62	60	58					58			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	625287	625287	625287
5°	606479	607964	605241
10°	555178	552924	549617
15°	466942	471284	466227
20°	357122	366572	356492
25°	226782	255688	231192
30°	131882	148916	134218
35°	69744	74141	69925
40°	36775	38449	36775
45°	20583	21350	20862
50°	9594	12204	9594
55°	3527	6623	3785
60°	4046	4046	4046
65°	4319	4786	4319
70°	5337	4760	5337
75°	4956	4956	4956
80°	5114	4262	5114
85°	3962	3962	3962



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.1	16.5
10°-20°	251.9	36.6
20°-30°	203.4	29.6
30°-40°	80.4	11.7
40°-50°	24.7	3.6
50°-60°	6.4	0.9
60°-70°	3.9	0.6
70°-80°	2.8	0.4
80°-90°	0.8	0.1
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°	568.5	82.7
0°-40°	648.9	94.4
0°-60°	679.9	98.9
0°-90°	687.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	687.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1267	1267	1267	1267	1267	
5°	1225	1227	1228	1225	1222	113
15°	914	917	923	919	913	251
25°	417	436	470	445	425	194
35°	116	119	123	119	116	78
45°	30	30	31	30	30	24
55°	4	6	8	6	4	5
65°	4	4	4	4	4	4
75°	3	3	3	3	3	3
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1267.4	1267.4	1267.4	1267.4	1267.4
2.5°	1251.6	1252.3	1253.4	1251.9	1248.2
5°	1224.6	1226.9	1227.6	1225.0	1222.1
7.5°	1180.4	1177.8	1180.0	1175.6	1171.9
10°	1108.2	1104.8	1103.7	1097.1	1097.1
12.5°	1018.9	1017.8	1018.6	1015.3	1010.1
15°	914.2	916.8	922.7	919.0	912.8
17.5°	803.3	807.0	812.1	811.0	802.5
20°	680.2	690.8	698.2	691.2	679.0
22.5°	540.1	562.9	581.7	567.0	547.1
25°	416.6	436.5	469.7	444.6	424.7
27.5°	315.9	330.3	360.5	335.8	322.2
30°	231.5	240.4	261.4	245.2	235.6
32.5°	165.5	171.8	180.6	171.1	166.3
35°	115.8	119.1	123.1	119.4	116.1
37.5°	81.5	82.6	85.5	82.6	81.1
40°	57.1	57.5	59.7	57.9	57.1
42.5°	41.3	41.3	42.4	41.7	41.3
45°	29.5	29.9	30.6	30.2	29.9
47.5°	21.0	21.8	21.8	22.1	20.6
50°	12.5	15.5	15.9	15.5	12.5
52.5°	6.6	9.2	11.4	9.2	6.6
55°	4.1	5.5	7.7	5.5	4.4
57.5°	4.1	4.1	5.2	4.4	4.1
60°	4.1	4.1	4.1	4.1	4.1
62.5°	4.1	4.1	4.1	4.1	4.1
65°	3.7	4.1	4.1	4.1	3.7
67.5°	3.7	3.7	3.7	3.7	3.7
70°	3.7	3.7	3.3	3.7	3.7
72.5°	3.3	3.3	2.9	3.3	3.3
75°	2.6	2.6	2.6	2.6	2.6
77.5°	2.2	2.2	2.2	2.2	2.2
80°	1.8	1.8	1.5	1.8	1.8
82.5°	1.1	1.1	1.1	1.1	1.1
85°	0.7	0.7	0.7	0.7	0.7
87.5°	0.4	0.4	0.4	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)