

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: P283797

Luminaire Tested: **LDA2B058027D010 EU2B05WFL558027 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283797
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: LDA2B058027D010 EU2B05WFL558027 2LBAPINSQ1MB
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND 2in Adj SQ PinHole, MB

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 699.0 lumens
Efficiency: N/A
Efficacy: 99.9 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

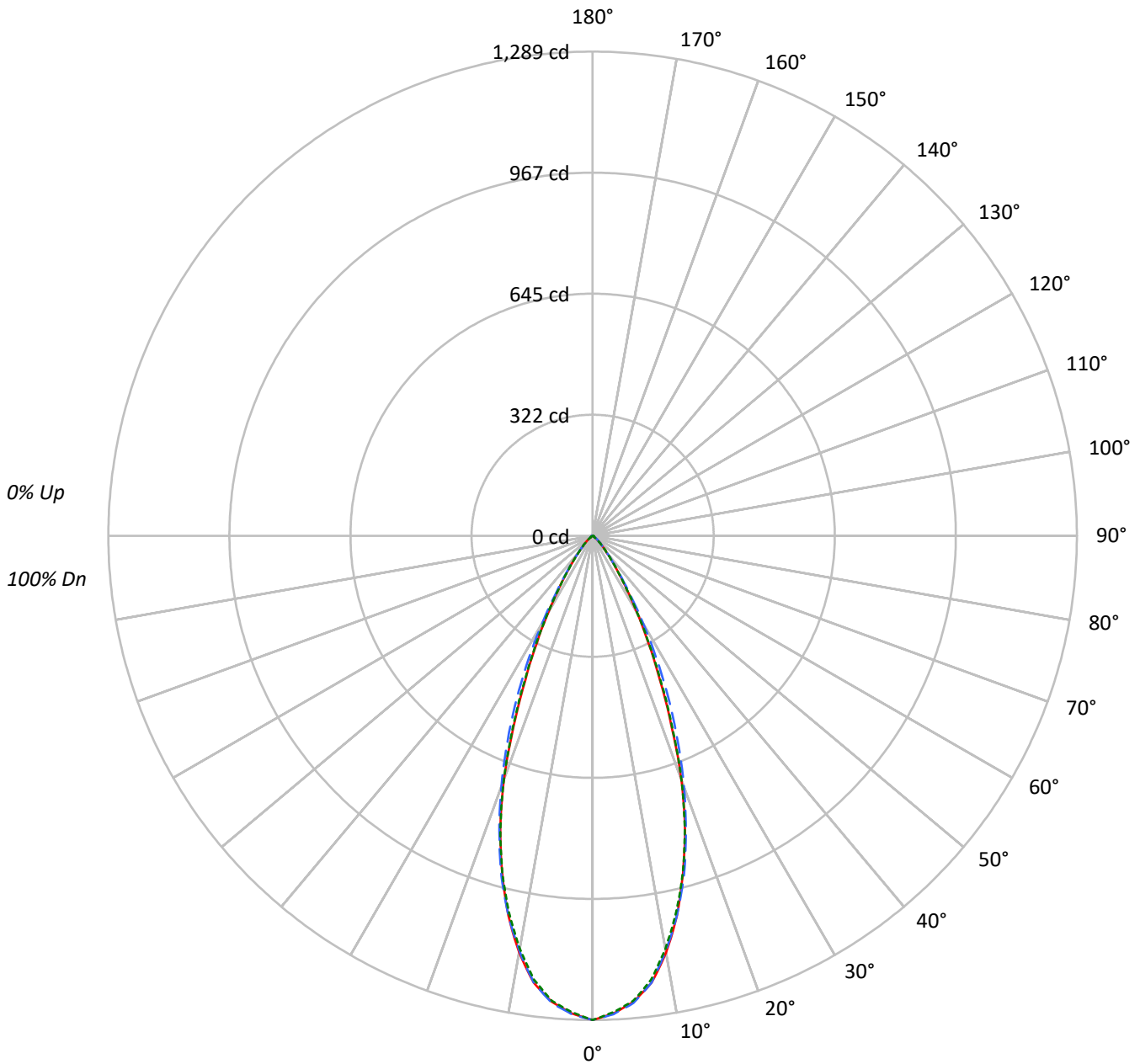
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	635943	635943	635943
5°	616829	618315	615492
10°	564596	562342	558935
15°	474910	479303	474144
20°	363160	372820	362582
25°	230647	259988	235111
30°	134104	151422	136497
35°	70889	75406	71130
40°	37419	39093	37419
45°	20932	21699	21211
50°	9748	12357	9748
55°	3527	6795	3871
60°	4046	4046	4046
65°	4319	4786	4319
70°	5337	4904	5337
75°	4956	4956	4956
80°	5398	4262	5398
85°	3962	3962	3962



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.1	16.5
10°-20°	256.2	36.6
20°-30°	206.9	29.6
30°-40°	81.8	11.7
40°-50°	25.1	3.6
50°-60°	6.5	0.9
60°-70°	3.9	0.6
70°-80°	2.9	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°	578.1	82.7
0°-40°	659.9	94.4
0°-60°	691.5	98.9
0°-90°	699.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	699.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1289	1289	1289	1289	1289	
5°	1246	1248	1248	1246	1243	115
15°	930	932	938	935	928	255
25°	424	444	478	452	432	197
35°	118	121	125	122	118	79
45°	30	30	31	31	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°	1289.0	1289.0	1289.0	1289.0	1289.0
2.5°	1272.8	1273.6	1274.7	1273.2	1269.5
5°	1245.5	1247.7	1248.5	1245.8	1242.8
7.5°	1200.5	1197.9	1200.1	1195.6	1191.9
10°	1127.0	1123.6	1122.5	1115.7	1115.7
12.5°	1036.3	1035.1	1035.9	1032.5	1027.3
15°	929.8	932.4	938.4	934.7	928.3
17.5°	816.9	820.7	825.9	824.8	816.2
20°	691.7	702.6	710.1	703.0	690.6
22.5°	549.3	572.5	591.6	576.6	556.4
25°	423.7	443.9	477.6	452.1	431.9
27.5°	321.3	335.9	366.7	341.5	327.7
30°	235.4	244.4	265.8	249.3	239.6
32.5°	168.3	174.7	183.7	174.0	169.1
35°	117.7	121.1	125.2	121.5	118.1
37.5°	82.9	84.0	87.0	84.0	82.5
40°	58.1	58.5	60.7	58.9	58.1
42.5°	42.0	42.0	43.1	42.4	42.0
45°	30.0	30.4	31.1	30.7	30.4
47.5°	21.4	22.1	22.1	22.5	21.0
50°	12.7	15.7	16.1	15.7	12.7
52.5°	6.7	9.4	11.6	9.4	6.7
55°	4.1	5.6	7.9	5.6	4.5
57.5°	4.1	4.1	5.2	4.5	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	3.4	3.7	3.7
72.5°	3.4	3.4	3.0	3.4	3.4
75°	2.6	2.6	2.6	2.6	2.6
77.5°	2.2	2.2	2.2	2.2	2.2
80°	1.9	1.9	1.5	1.9	1.9
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)