

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: P283798

Luminaire Tested: **LDA2B058027D010 EU2B05WFL558027 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283798
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 2LBAPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in Adj SQ PinHole, MMS

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 712.6 lumens
Efficiency: N/A
Efficacy: 101.8 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

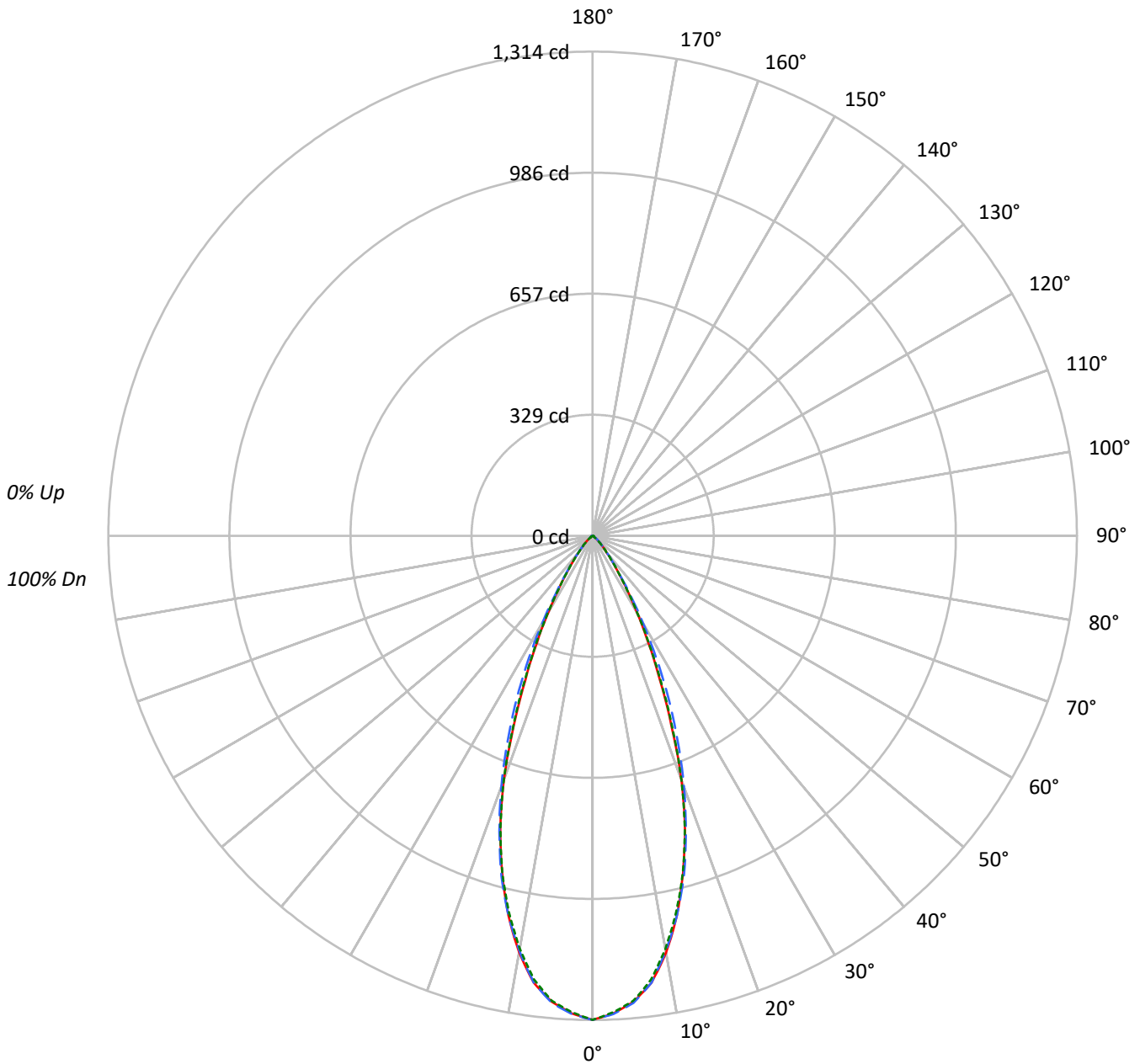
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	648228	648228	648228
5°	628715	630251	627428
10°	575517	573213	569756
15°	484104	488547	483287
20°	370195	380013	369565
25°	235057	265051	239629
30°	136724	154328	139117
35°	72274	76851	72515
40°	38127	39866	38127
45°	21350	22118	21629
50°	9978	12588	9978
55°	3613	6881	3957
60°	4144	4144	4144
65°	4436	4903	4436
70°	5481	4904	5481
75°	5147	5147	5147
80°	5398	4262	5398
85°	4529	4529	4529



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.3	16.5
10°-20°	261.1	36.6
20°-30°	210.9	29.6
30°-40°	83.4	11.7
40°-50°	25.6	3.6
50°-60°	6.6	0.9
60°-70°	4.0	0.6
70°-80°	2.9	0.4
80°-90°	0.9	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°	589.3	82.7
0°-40°	672.7	94.4
0°-60°	704.8	98.9
0°-90°	712.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	712.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1314	1314	1314	1314	1314	
5°	1270	1272	1273	1270	1267	117
15°	948	950	956	953	946	260
25°	432	452	487	461	440	201
35°	120	123	128	124	120	80
45°	31	31	32	31	31	25
55°	4	6	8	6	5	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°	1313.9	1313.9	1313.9	1313.9	1313.9
2.5°	1297.4	1298.2	1299.3	1297.8	1294.0
5°	1269.5	1271.8	1272.6	1269.9	1266.9
7.5°	1223.7	1221.0	1223.3	1218.7	1214.9
10°	1148.8	1145.3	1144.2	1137.3	1137.3
12.5°	1056.3	1055.1	1055.9	1052.5	1047.1
15°	947.8	950.4	956.5	952.7	946.2
17.5°	832.7	836.5	841.9	840.7	832.0
20°	705.1	716.2	723.8	716.5	703.9
22.5°	559.9	583.6	603.0	587.8	567.1
25°	431.8	452.5	486.9	460.9	440.2
27.5°	327.5	342.4	373.8	348.1	334.0
30°	240.0	249.2	270.9	254.1	244.2
32.5°	171.6	178.1	187.3	177.3	172.4
35°	120.0	123.4	127.6	123.8	120.4
37.5°	84.5	85.6	88.7	85.6	84.1
40°	59.2	59.6	61.9	60.0	59.2
42.5°	42.8	42.8	43.9	43.2	42.8
45°	30.6	31.0	31.7	31.3	31.0
47.5°	21.8	22.5	22.5	22.9	21.4
50°	13.0	16.1	16.4	16.1	13.0
52.5°	6.9	9.6	11.8	9.6	6.9
55°	4.2	5.7	8.0	5.7	4.6
57.5°	4.2	4.2	5.4	4.6	4.2
60°	4.2	4.2	4.2	4.2	4.2
62.5°	4.2	4.2	4.2	4.2	4.2
65°	3.8	4.2	4.2	4.2	3.8
67.5°	3.8	3.8	3.8	3.8	3.8
70°	3.8	3.8	3.4	3.8	3.8
72.5°	3.4	3.4	3.1	3.4	3.4
75°	2.7	2.7	2.7	2.7	2.7
77.5°	2.3	2.3	2.3	2.3	2.3
80°	1.9	1.9	1.5	1.9	1.9
82.5°	1.1	1.1	1.1	1.1	1.1
85°	0.8	0.8	0.8	0.8	0.8
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)