

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: P283826

Luminaire Tested: **LDA2B059024D010 EU2B05WFL559024 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283826
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: LDA2B059024D010 EU2B05WFL559024 2LBAPINSQ1MW
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in Adj SQ PinHole, MW

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 526.3 lumens
Efficiency: N/A
Efficacy: 75.2 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

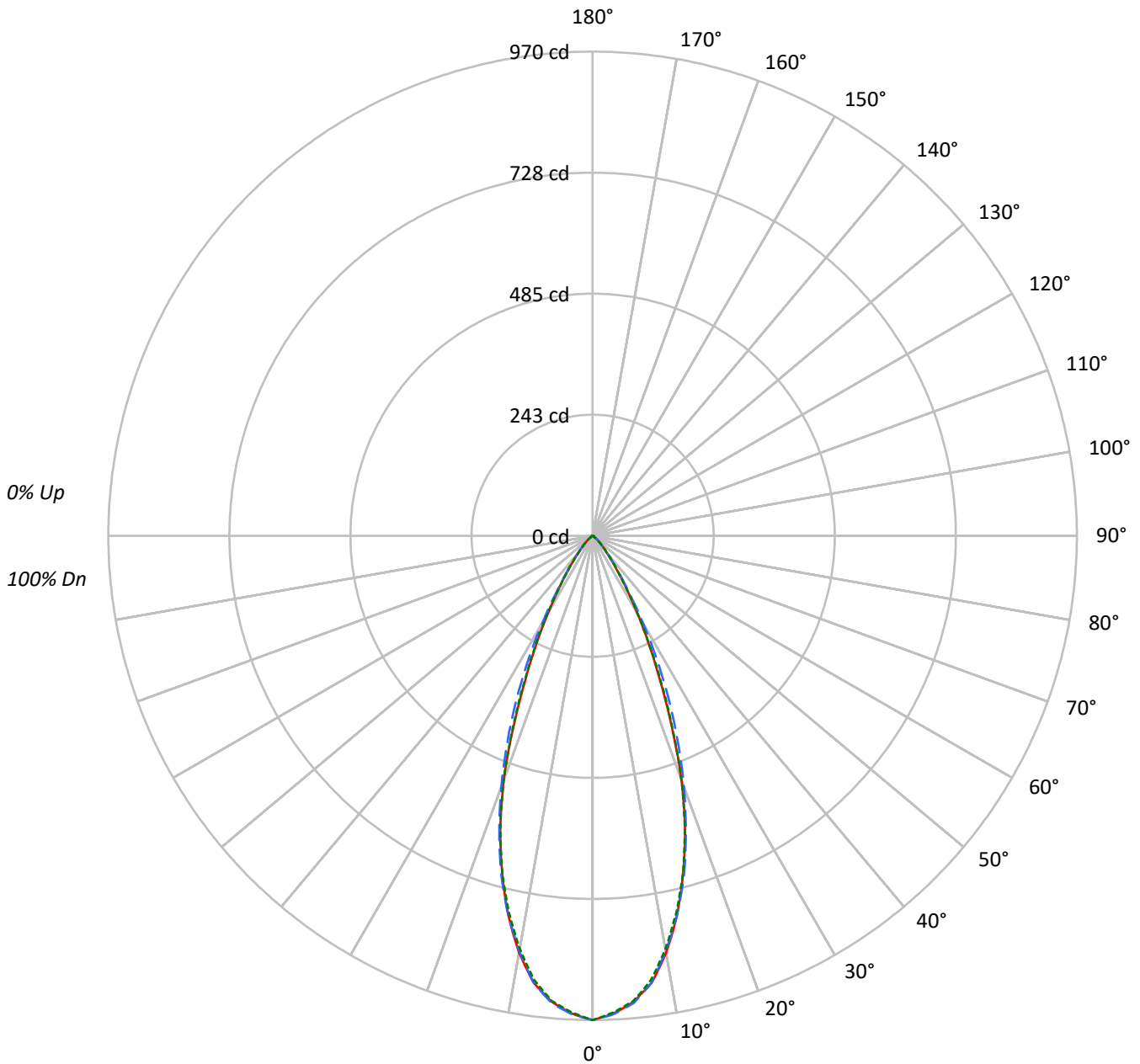
Input Watts (W): 7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					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°	478709	478709	478709
5°	464293	465433	463352
10°	425025	423322	420767
15°	357485	360805	356923
20°	273380	280626	272960
25°	173598	195699	176973
30°	100948	113994	102714
35°	53362	56795	53543
40°	28144	29433	28144
45°	15768	16327	15978
50°	7368	9287	7368
55°	2666	5075	2925
60°	3059	3059	3059
65°	3269	3619	3269
70°	4039	3606	4039
75°	3812	3812	3812
80°	3978	3125	3978
85°	3396	3396	3396



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.6	16.5
10°-20°	192.8	36.6
20°-30°	155.7	29.6
30°-40°	61.6	11.7
40°-50°	18.9	3.6
50°-60°	4.9	0.9
60°-70°	2.9	0.6
70°-80°	2.2	0.4
80°-90°	0.6	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°	435.2	82.7
0°-40°	496.8	94.4
0°-60°	520.5	98.9
0°-90°	526.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	526.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	970	970	970	970	970	
5°	938	939	940	938	936	87
15°	700	702	706	704	699	192
25°	319	334	360	340	325	148
35°	89	91	94	91	89	59
45°	23	23	23	23	23	18
55°	3	4	6	4	3	4
65°	3	3	3	3	3	3
75°	2	2	2	2	2	2
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°	970.3	970.3	970.3	970.3	970.3
2.5°	958.1	958.7	959.6	958.4	955.6
5°	937.5	939.2	939.8	937.8	935.6
7.5°	903.7	901.7	903.4	900.0	897.2
10°	848.4	845.8	845.0	839.9	839.9
12.5°	780.1	779.2	779.8	777.2	773.3
15°	699.9	701.9	706.4	703.6	698.8
17.5°	615.0	617.8	621.7	620.9	614.4
20°	520.7	528.9	534.5	529.2	519.9
22.5°	413.5	431.0	445.3	434.1	418.8
25°	318.9	334.1	359.5	340.4	325.1
27.5°	241.9	252.9	276.0	257.1	246.7
30°	177.2	184.0	200.1	187.7	180.3
32.5°	126.7	131.5	138.3	131.0	127.3
35°	88.6	91.2	94.3	91.4	88.9
37.5°	62.4	63.2	65.5	63.2	62.1
40°	43.7	44.0	45.7	44.3	43.7
42.5°	31.6	31.6	32.5	31.9	31.6
45°	22.6	22.9	23.4	23.1	22.9
47.5°	16.1	16.7	16.7	16.9	15.8
50°	9.6	11.9	12.1	11.9	9.6
52.5°	5.1	7.1	8.7	7.1	5.1
55°	3.1	4.2	5.9	4.2	3.4
57.5°	3.1	3.1	4.0	3.4	3.1
60°	3.1	3.1	3.1	3.1	3.1
62.5°	3.1	3.1	3.1	3.1	3.1
65°	2.8	3.1	3.1	3.1	2.8
67.5°	2.8	2.8	2.8	2.8	2.8
70°	2.8	2.8	2.5	2.8	2.8
72.5°	2.5	2.5	2.3	2.5	2.5
75°	2.0	2.0	2.0	2.0	2.0
77.5°	1.7	1.7	1.7	1.7	1.7
80°	1.4	1.4	1.1	1.4	1.4
82.5°	0.8	0.8	0.8	0.8	0.8
85°	0.6	0.6	0.6	0.6	0.6
87.5°	0.3	0.3	0.3	0.3	0.3
90°	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)