

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: P283830

Luminaire Tested: **LDA2B059024D010 EU2B05WFL559024 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283830
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 2LBALPINSQ1MB
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in Adj SQ Pinhole w-lens, MB

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 474.7 lumens
Efficiency: N/A
Efficacy: 67.8 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

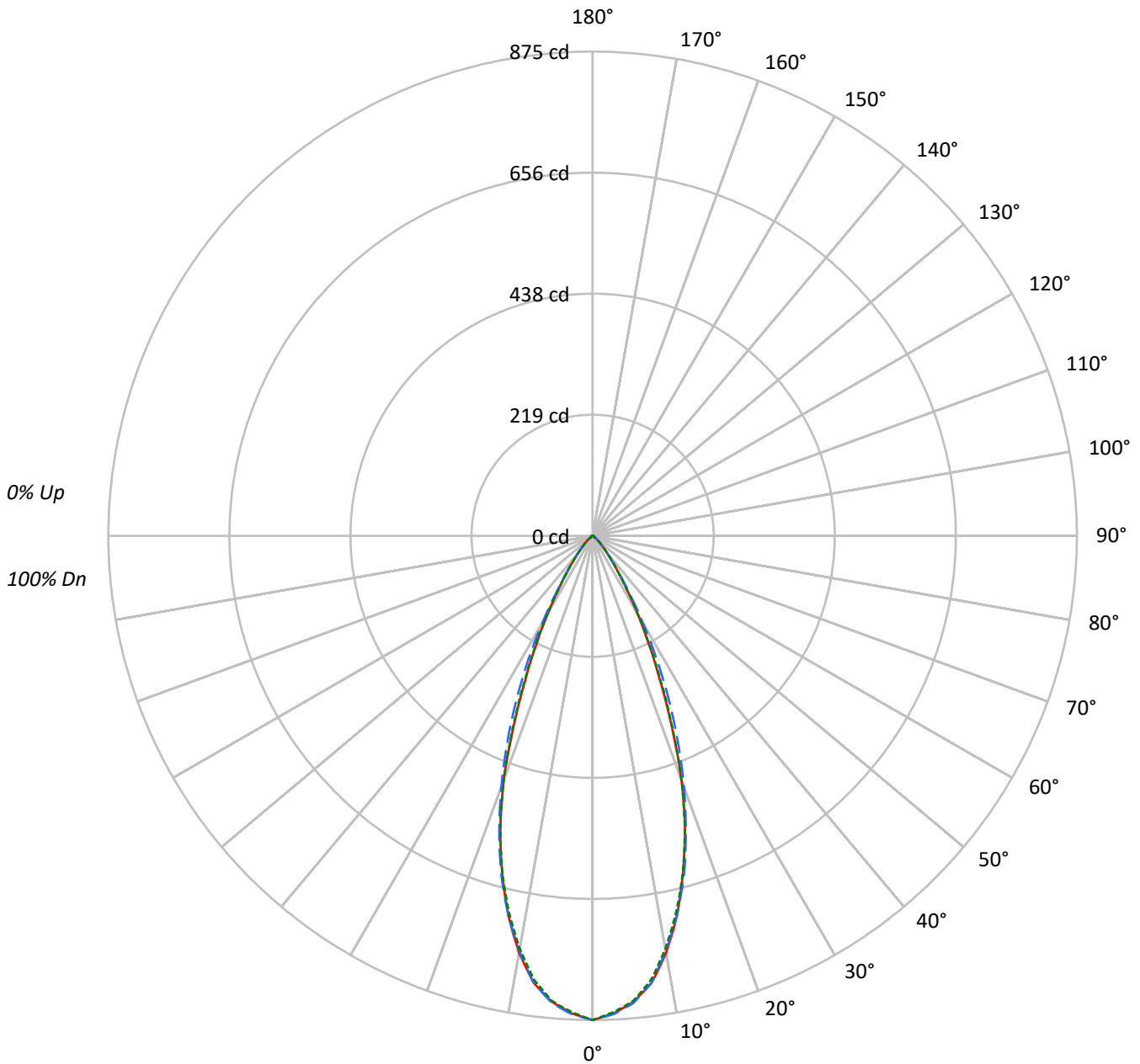
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	431741	431741	431741
5°	418731	419771	417889
10°	383294	381791	379487
15°	322395	325409	321885
20°	246552	253114	246132
25°	156559	176537	159608
30°	91036	102828	92631
35°	48122	51194	48303
40°	25440	26534	25440
45°	14233	14722	14373
50°	6678	8366	6678
55°	2408	4559	2666
60°	2763	2763	2763
65°	2918	3269	2918
70°	3606	3318	3606
75°	3431	3431	3431
80°	3694	2841	3694
85°	2830	2830	2830



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.1	16.5
10°-20°	173.9	36.6
20°-30°	140.5	29.6
30°-40°	55.5	11.7
40°-50°	17.1	3.6
50°-60°	4.4	0.9
60°-70°	2.6	0.6
70°-80°	1.9	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°	392.5	82.7
0°-40°	448.0	94.4
0°-60°	469.5	98.9
0°-90°	474.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	474.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	875	875	875	875	875	
5°	846	847	848	846	844	78
15°	631	633	637	634	630	173
25°	288	301	324	307	293	134
35°	80	82	85	82	80	54
45°	20	21	21	21	21	17
55°	3	4	5	4	3	4
65°	2	3	3	3	2	3
75°	2	2	2	2	2	2
85°	0	0	0	0	0	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	875.1	875.1	875.1	875.1	875.1
2.5°	864.1	864.6	865.4	864.4	861.8
5°	845.5	847.1	847.6	845.8	843.8
7.5°	815.0	813.2	814.7	811.7	809.1
10°	765.1	762.8	762.1	757.5	757.5
12.5°	703.5	702.8	703.3	701.0	697.4
15°	631.2	633.0	637.1	634.5	630.2
17.5°	554.6	557.2	560.7	560.0	554.1
20°	469.6	477.0	482.1	477.2	468.8
22.5°	372.9	388.7	401.6	391.5	377.7
25°	287.6	301.4	324.3	307.0	293.2
27.5°	218.1	228.1	248.9	231.9	222.5
30°	159.8	166.0	180.5	169.3	162.6
32.5°	114.3	118.6	124.7	118.1	114.8
35°	79.9	82.2	85.0	82.5	80.2
37.5°	56.3	57.0	59.1	57.0	56.0
40°	39.5	39.7	41.2	40.0	39.5
42.5°	28.5	28.5	29.3	28.8	28.5
45°	20.4	20.6	21.1	20.9	20.6
47.5°	14.5	15.0	15.0	15.3	14.3
50°	8.7	10.7	10.9	10.7	8.7
52.5°	4.6	6.4	7.9	6.4	4.6
55°	2.8	3.8	5.3	3.8	3.1
57.5°	2.8	2.8	3.6	3.1	2.8
60°	2.8	2.8	2.8	2.8	2.8
62.5°	2.8	2.8	2.8	2.8	2.8
65°	2.5	2.8	2.8	2.8	2.5
67.5°	2.5	2.5	2.5	2.5	2.5
70°	2.5	2.5	2.3	2.5	2.5
72.5°	2.3	2.3	2.0	2.3	2.3
75°	1.8	1.8	1.8	1.8	1.8
77.5°	1.5	1.5	1.5	1.5	1.5
80°	1.3	1.3	1.0	1.3	1.3
82.5°	0.8	0.8	0.8	0.8	0.8
85°	0.5	0.5	0.5	0.5	0.5
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)