

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: P283850

Luminaire Tested: **LDA2B059040D010 EU2B05WFL559040 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283850
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: LDA2B059040D010 EU2B05WFL559040 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: 627.2 lumens
Efficiency: N/A
Efficacy: 89.6 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

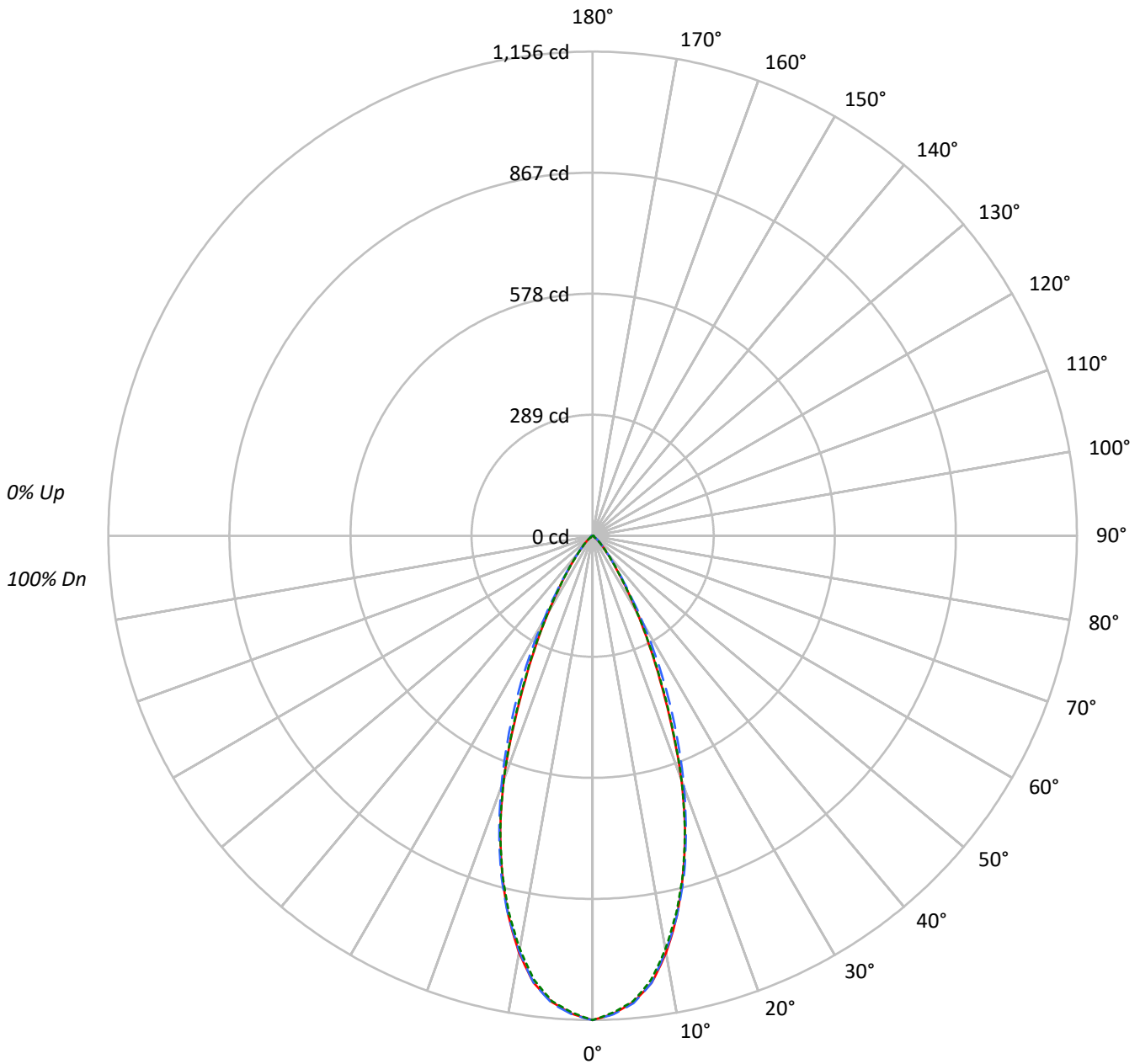
Input Watts (W): 7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	570524	570524	570524
5°	553388	554725	552249
10°	506533	504530	501474
15°	426081	430014	425366
20°	325830	334493	325305
25°	206913	233260	210941
30°	120317	135870	122425
35°	63601	67636	63842
40°	33554	35100	33554
45°	18769	19466	18978
50°	8750	11129	8750
55°	3183	6107	3441
60°	3651	3651	3651
65°	3969	4319	3969
70°	4904	4327	4904
75°	4575	4575	4575
80°	4830	3694	4830
85°	3962	3962	3962



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.2	16.5
10°-20°	229.8	36.6
20°-30°	185.6	29.6
30°-40°	73.4	11.7
40°-50°	22.5	3.6
50°-60°	5.8	0.9
60°-70°	3.5	0.6
70°-80°	2.6	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°	518.7	82.7
0°-40°	592.0	94.4
0°-60°	620.4	98.9
0°-90°	627.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	627.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1156	1156	1156	1156	1156	
5°	1117	1119	1120	1118	1115	103
15°	834	836	842	839	833	229
25°	380	398	428	406	388	177
35°	106	109	112	109	106	71
45°	27	27	28	28	27	22
55°	4	5	7	5	4	5
65°	3	4	4	4	3	3
75°	2	2	2	2	2	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°	1156.4	1156.4	1156.4	1156.4	1156.4
2.5°	1142.0	1142.6	1143.6	1142.3	1138.9
5°	1117.4	1119.4	1120.1	1117.7	1115.1
7.5°	1077.0	1074.7	1076.7	1072.7	1069.3
10°	1011.1	1008.1	1007.1	1001.0	1001.0
12.5°	929.7	928.7	929.4	926.4	921.6
15°	834.2	836.5	841.9	838.6	832.8
17.5°	732.9	736.3	741.0	740.0	732.3
20°	620.6	630.4	637.1	630.7	619.6
22.5°	492.8	513.6	530.8	517.3	499.2
25°	380.1	398.3	428.5	405.7	387.5
27.5°	288.3	301.4	329.0	306.4	294.0
30°	211.2	219.3	238.5	223.7	214.9
32.5°	151.0	156.7	164.8	156.1	151.7
35°	105.6	108.6	112.3	109.0	106.0
37.5°	74.3	75.3	78.0	75.3	74.0
40°	52.1	52.5	54.5	52.8	52.1
42.5°	37.7	37.7	38.7	38.0	37.7
45°	26.9	27.2	27.9	27.6	27.2
47.5°	19.2	19.8	19.8	20.2	18.8
50°	11.4	14.1	14.5	14.1	11.4
52.5°	6.1	8.4	10.4	8.4	6.1
55°	3.7	5.0	7.1	5.0	4.0
57.5°	3.7	3.7	4.7	4.0	3.7
60°	3.7	3.7	3.7	3.7	3.7
62.5°	3.7	3.7	3.7	3.7	3.7
65°	3.4	3.7	3.7	3.7	3.4
67.5°	3.4	3.4	3.4	3.4	3.4
70°	3.4	3.4	3.0	3.4	3.4
72.5°	3.0	3.0	2.7	3.0	3.0
75°	2.4	2.4	2.4	2.4	2.4
77.5°	2.0	2.0	2.0	2.0	2.0
80°	1.7	1.7	1.3	1.7	1.7
82.5°	1.0	1.0	1.0	1.0	1.0
85°	0.7	0.7	0.7	0.7	0.7
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)