

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: P283950

Luminaire Tested: **LDA2B109727D010 EU2B10WFL559727 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283950
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: LDA2B109727D010 EU2B10WFL559727 2LBALPINSQ1MB
Description: PORTFOLIO 2IN ADJ 1000 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: 625.2 lumens
Efficiency: N/A
Efficacy: 62.5 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

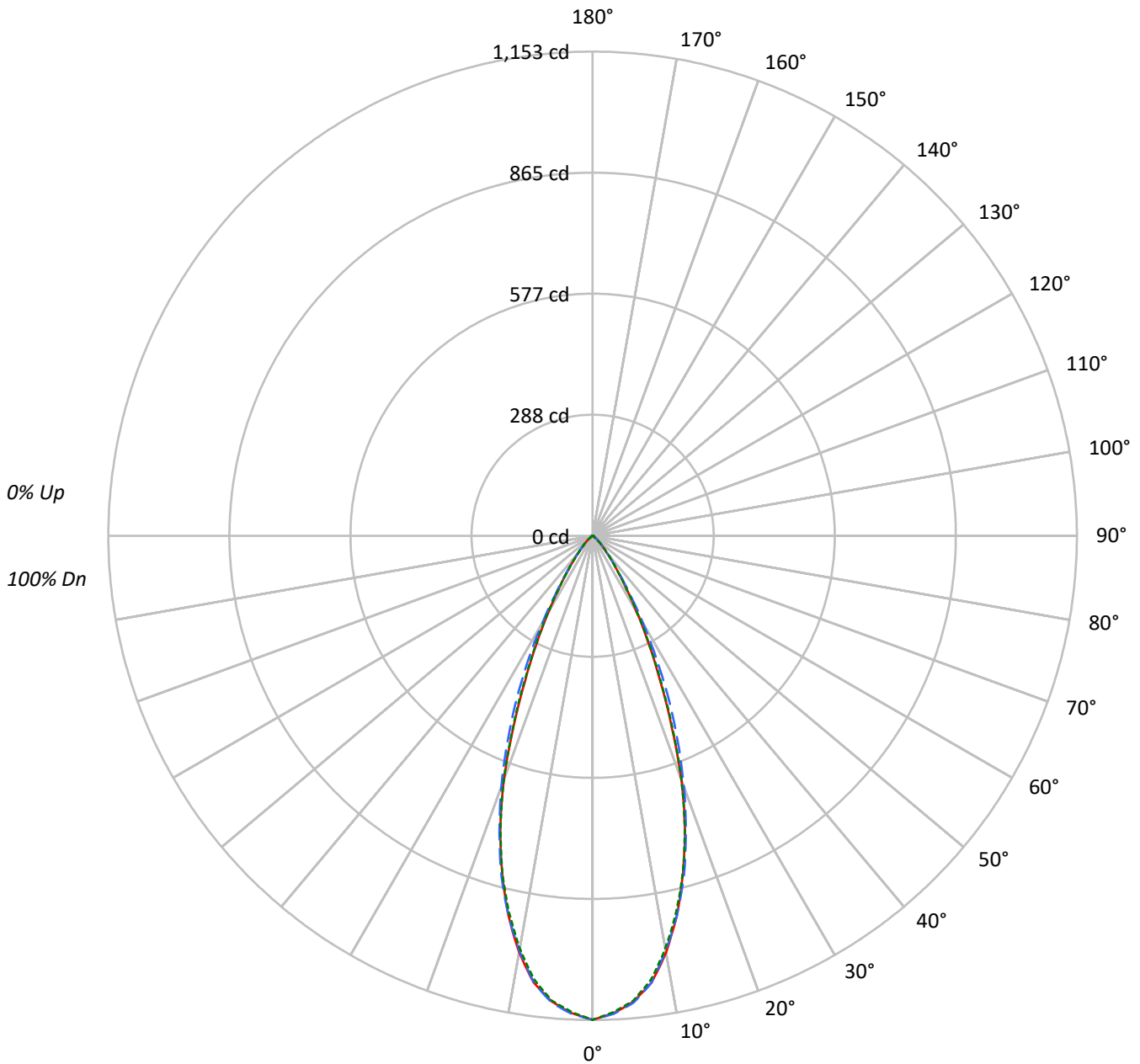
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	568649	568649	568649
5°	551556	552893	550367
10°	504880	502826	499820
15°	424651	428584	423987
20°	324728	333391	324203
25°	206205	232498	210234
30°	119919	135414	122027
35°	63420	67456	63601
40°	33490	34971	33490
45°	18699	19397	18978
50°	8750	11052	8750
55°	3183	6021	3441
60°	3651	3651	3651
65°	3969	4319	3969
70°	4904	4327	4904
75°	4384	4384	4384
80°	4830	3694	4830
85°	3962	3962	3962



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.9	16.5
10°-20°	229.1	36.6
20°-30°	185.0	29.6
30°-40°	73.1	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°	517.0	82.7
0°-40°	590.1	94.4
0°-60°	618.3	98.9
0°-90°	625.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	625.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1153	1153	1153	1153	1153	
5°	1114	1116	1116	1114	1111	103
15°	831	834	839	836	830	228
25°	379	397	427	404	386	176
35°	105	108	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°	1152.6	1152.6	1152.6	1152.6	1152.6
2.5°	1138.2	1138.8	1139.8	1138.5	1135.1
5°	1113.7	1115.7	1116.4	1114.0	1111.3
7.5°	1073.5	1071.1	1073.1	1069.1	1065.7
10°	1007.8	1004.7	1003.7	997.7	997.7
12.5°	926.6	925.6	926.3	923.3	918.6
15°	831.4	833.8	839.1	835.8	830.1
17.5°	730.5	733.9	738.5	737.5	729.8
20°	618.5	628.3	635.0	628.6	617.5
22.5°	491.1	511.9	529.0	515.6	497.5
25°	378.8	396.9	427.1	404.3	386.2
27.5°	287.3	300.4	327.9	305.4	293.0
30°	210.5	218.6	237.7	222.9	214.2
32.5°	150.5	156.2	164.3	155.6	151.2
35°	105.3	108.3	112.0	108.6	105.6
37.5°	74.1	75.1	77.8	75.1	73.8
40°	52.0	52.3	54.3	52.6	52.0
42.5°	37.5	37.5	38.6	37.9	37.5
45°	26.8	27.2	27.8	27.5	27.2
47.5°	19.1	19.8	19.8	20.1	18.8
50°	11.4	14.1	14.4	14.1	11.4
52.5°	6.0	8.4	10.4	8.4	6.0
55°	3.7	5.0	7.0	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°	2.3	2.3	2.3	2.3	2.3
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)