

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: P283902

Luminaire Tested: **LDA2B108040D010 EU2B10WFL558040 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283902
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: LDA2B108040D010 EU2B10WFL558040 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: 945.8 lumens
Efficiency: N/A
Efficacy: 94.6 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

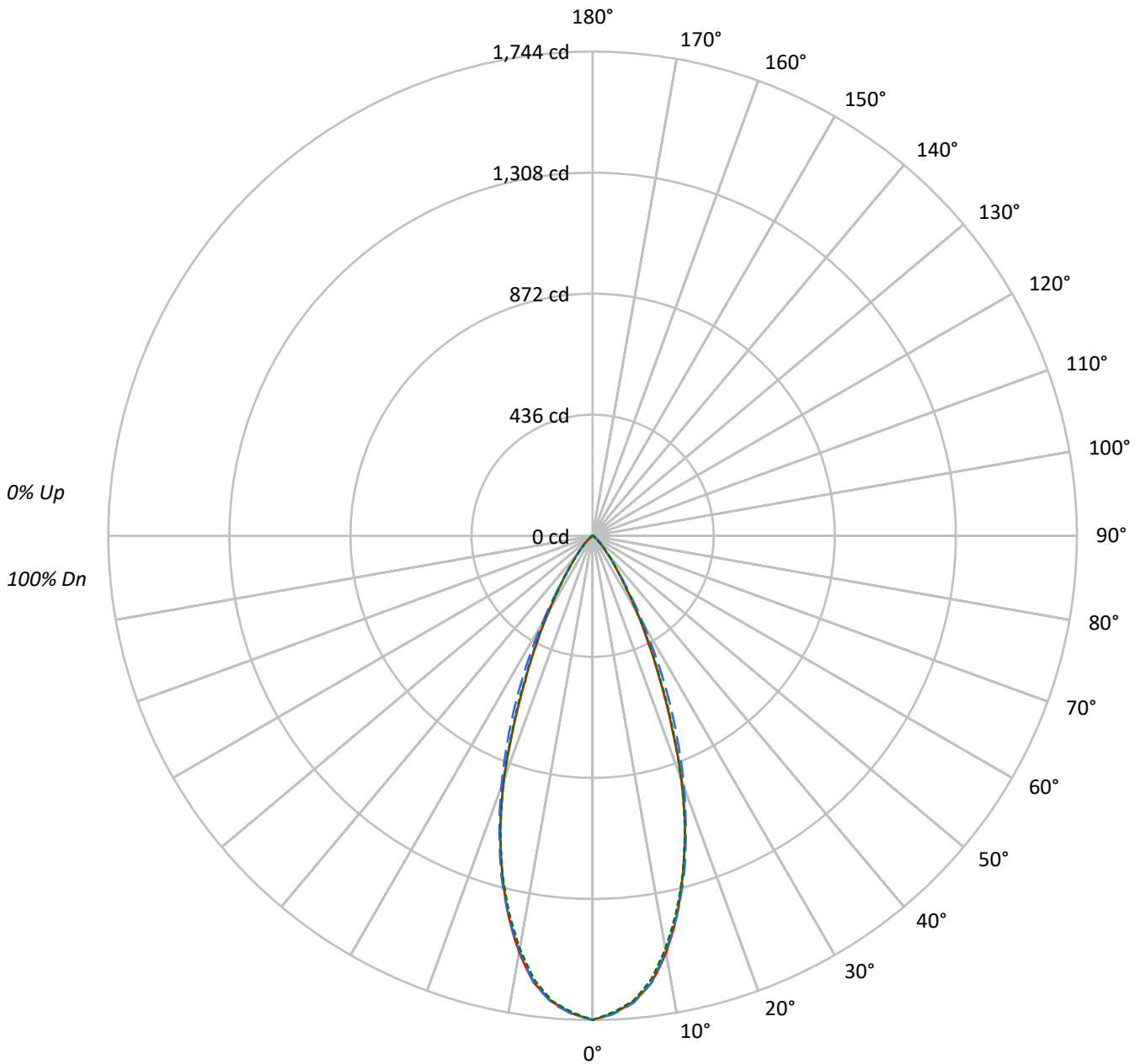
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	860275	860275	860275
5°	834441	836471	832707
10°	763783	760727	756168
15°	642441	648417	641420
20°	491318	504339	490531
25°	311975	351768	318072
30°	181445	204859	184635
35°	95944	102027	96245
40°	50621	52940	50621
45°	28327	29374	28676
50°	13202	16732	13202
55°	4817	9204	5247
60°	5526	5526	5526
65°	5954	6537	5954
70°	7357	6635	7357
75°	6862	6862	6862
80°	7103	5682	7103
85°	5661	5661	5661



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.7	16.5
10°-20°	346.6	36.6
20°-30°	279.9	29.6
30°-40°	110.6	11.7
40°-50°	34.0	3.6
50°-60°	8.8	0.9
60°-70°	5.3	0.6
70°-80°	3.9	0.4
80°-90°	1.1	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°	782.1	82.7
0°-40°	892.7	94.4
0°-60°	935.5	98.9
0°-90°	945.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	945.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1744	1744	1744	1744	1744	
5°	1685	1688	1689	1685	1681	156
15°	1258	1261	1270	1264	1256	345
25°	573	600	646	612	584	267
35°	159	164	169	164	160	107
45°	41	41	42	42	41	33
55°	6	8	11	8	6	7
65°	5	6	6	6	5	5
75°	4	4	4	4	4	4
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°	1743.7	1743.7	1743.7	1743.7	1743.7
2.5°	1721.9	1722.9	1724.5	1722.4	1717.4
5°	1684.9	1688.0	1689.0	1685.4	1681.4
7.5°	1624.0	1620.5	1623.5	1617.4	1612.4
10°	1524.6	1520.1	1518.5	1509.4	1509.4
12.5°	1401.9	1400.4	1401.4	1396.8	1389.7
15°	1257.8	1261.4	1269.5	1264.4	1255.8
17.5°	1105.2	1110.3	1117.4	1115.8	1104.2
20°	935.8	950.5	960.6	951.0	934.3
22.5°	743.0	774.5	800.4	780.1	752.7
25°	573.1	600.5	646.2	611.7	584.3
27.5°	434.7	454.4	496.0	462.1	443.3
30°	318.5	330.7	359.6	337.3	324.1
32.5°	227.7	236.4	248.5	235.3	228.7
35°	159.3	163.8	169.4	164.3	159.8
37.5°	112.1	113.6	117.7	113.6	111.6
40°	78.6	79.1	82.2	79.6	78.6
42.5°	56.8	56.8	58.3	57.3	56.8
45°	40.6	41.1	42.1	41.6	41.1
47.5°	28.9	29.9	29.9	30.4	28.4
50°	17.2	21.3	21.8	21.3	17.2
52.5°	9.1	12.7	15.7	12.7	9.1
55°	5.6	7.6	10.7	7.6	6.1
57.5°	5.6	5.6	7.1	6.1	5.6
60°	5.6	5.6	5.6	5.6	5.6
62.5°	5.6	5.6	5.6	5.6	5.6
65°	5.1	5.6	5.6	5.6	5.1
67.5°	5.1	5.1	5.1	5.1	5.1
70°	5.1	5.1	4.6	5.1	5.1
72.5°	4.6	4.6	4.1	4.6	4.6
75°	3.6	3.6	3.6	3.6	3.6
77.5°	3.0	3.0	3.0	3.0	3.0
80°	2.5	2.5	2.0	2.5	2.5
82.5°	1.5	1.5	1.5	1.5	1.5
85°	1.0	1.0	1.0	1.0	1.0
87.5°	0.5	0.5	0.5	0.5	0.5
90°	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)