

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: P283999

Luminaire Tested: **LDA2B159024D010 EU2B15WFL559024 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283999
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: LDA2B159024D010 EU2B15WFL559024 2LBALPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in Adj SQ Pinhole w-lens, MMS

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 872.7 lumens
Efficiency: N/A
Efficacy: 61.9 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

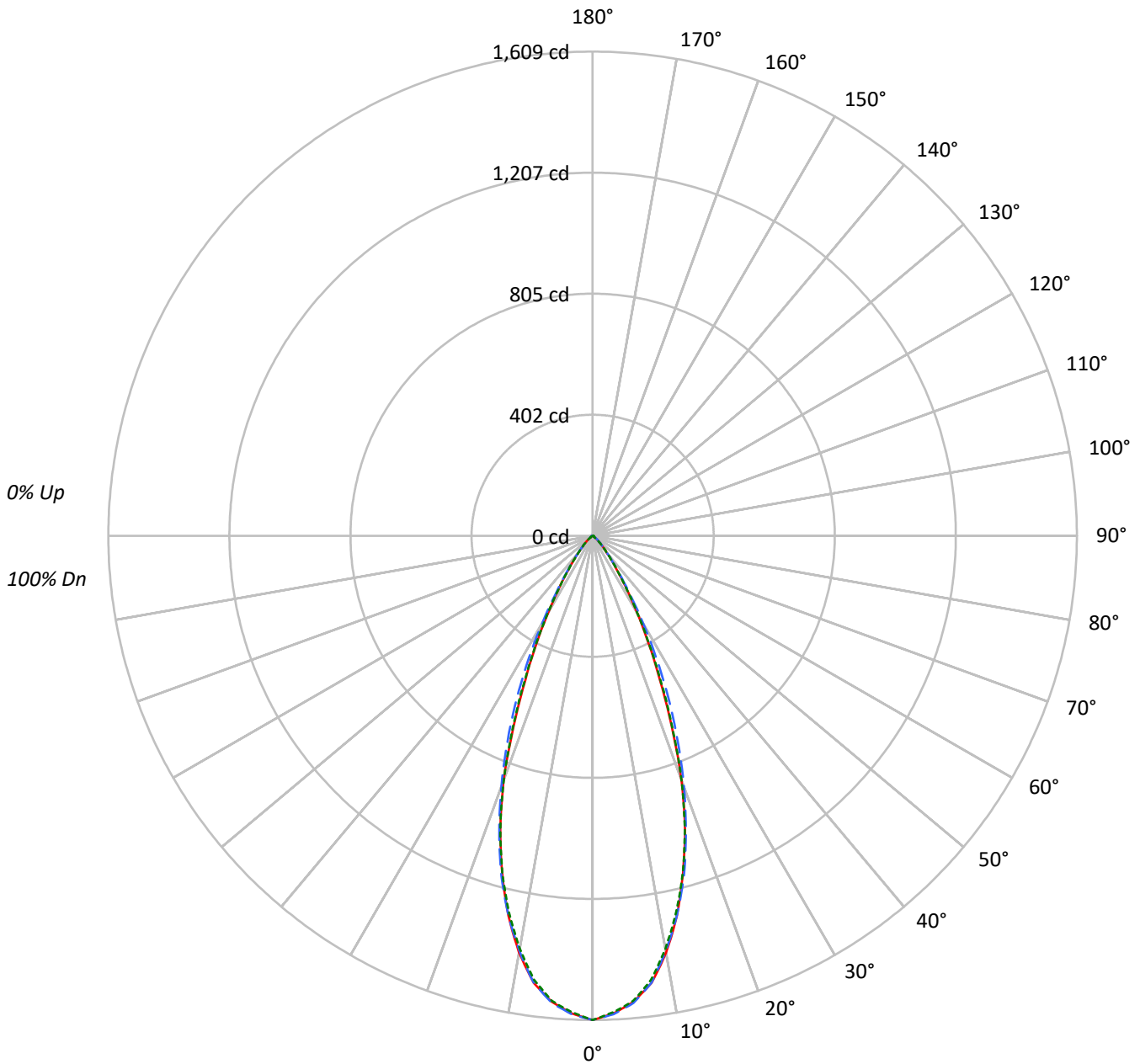
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94																			
2	109	104	101	98	107	103	99	96	100	97	94	97	94	92	94	92	90	89																			
3	104	98	94	90	102	97	93	89	94	91	88	92	89	87	90	87	85	84																			
4	100	93	88	84	98	92	87	83	90	86	82	88	84	81	86	83	81	79																			
5	95	88	82	79	94	87	82	78	85	81	78	84	80	77	82	79	76	75																			
6	91	83	78	74	90	82	77	74	81	77	73	80	76	73	78	75	72	71																			
7	87	79	74	70	86	78	73	70	77	73	69	76	72	69	75	71	69	67																			
8	84	75	70	66	83	75	70	66	74	69	66	73	69	66	72	68	65	64																			
9	81	72	67	63	80	71	66	63	71	66	63	70	66	63	69	65	62	61																			
10	77	69	64	60	76	68	63	60	68	63	60	67	63	60	66	62	60	58																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	793868	793868	793868
5°	770009	771891	768424
10°	704818	702013	697805
15°	592846	598362	591926
20°	453359	465434	452624
25°	287914	324605	293521
30°	167430	189022	170393
35°	88536	94137	88777
40°	46693	48818	46693
45°	26095	27071	26444
50°	12204	15427	12204
55°	4387	8429	4817
60°	5032	5032	5032
65°	5487	5954	5487
70°	6780	6058	6780
75°	6290	6290	6290
80°	6535	5398	6535
85°	5095	5095	5095



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.6	16.5
10°-20°	319.8	36.6
20°-30°	258.3	29.6
30°-40°	102.1	11.7
40°-50°	31.3	3.6
50°-60°	8.1	0.9
60°-70°	4.9	0.6
70°-80°	3.6	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°	721.7	82.7
0°-40°	823.8	94.4
0°-60°	863.2	98.9
0°-90°	872.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	872.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1609	1609	1609	1609	1609	
5°	1555	1558	1559	1555	1552	144
15°	1161	1164	1172	1167	1159	319
25°	529	554	596	564	539	246
35°	147	151	156	152	147	98
45°	37	38	39	38	38	31
55°	5	7	10	7	6	6
65°	5	5	5	5	5	5
75°	3	3	3	3	3	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°	1609.1	1609.1	1609.1	1609.1	1609.1
2.5°	1589.0	1589.9	1591.3	1589.5	1584.8
5°	1554.8	1557.6	1558.6	1555.3	1551.6
7.5°	1498.7	1495.4	1498.2	1492.6	1487.9
10°	1406.9	1402.7	1401.3	1392.9	1392.9
12.5°	1293.7	1292.3	1293.2	1289.0	1282.4
15°	1160.7	1164.0	1171.5	1166.8	1158.9
17.5°	1019.9	1024.5	1031.1	1029.7	1018.9
20°	863.5	877.1	886.5	877.6	862.1
22.5°	685.7	714.7	738.6	719.8	694.6
25°	528.9	554.2	596.3	564.5	539.2
27.5°	401.1	419.4	457.7	426.4	409.1
30°	293.9	305.2	331.8	311.2	299.1
32.5°	210.2	218.1	229.3	217.2	211.1
35°	147.0	151.2	156.3	151.6	147.4
37.5°	103.4	104.8	108.6	104.8	103.0
40°	72.5	73.0	75.8	73.5	72.5
42.5°	52.4	52.4	53.8	52.9	52.4
45°	37.4	37.9	38.8	38.4	37.9
47.5°	26.7	27.6	27.6	28.1	26.2
50°	15.9	19.7	20.1	19.7	15.9
52.5°	8.4	11.7	14.5	11.7	8.4
55°	5.1	7.0	9.8	7.0	5.6
57.5°	5.1	5.1	6.6	5.6	5.1
60°	5.1	5.1	5.1	5.1	5.1
62.5°	5.1	5.1	5.1	5.1	5.1
65°	4.7	5.1	5.1	5.1	4.7
67.5°	4.7	4.7	4.7	4.7	4.7
70°	4.7	4.7	4.2	4.7	4.7
72.5°	4.2	4.2	3.7	4.2	4.2
75°	3.3	3.3	3.3	3.3	3.3
77.5°	2.8	2.8	2.8	2.8	2.8
80°	2.3	2.3	1.9	2.3	2.3
82.5°	1.4	1.4	1.4	1.4	1.4
85°	0.9	0.9	0.9	0.9	0.9
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)