

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: P284035

Luminaire Tested: **LDA2B159727D010 EU2B15WFL559727 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P284035
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: LDA2B159727D010 EU2B15WFL559727 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: 846.2 lumens
Efficiency: N/A
Efficacy: 60.0 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

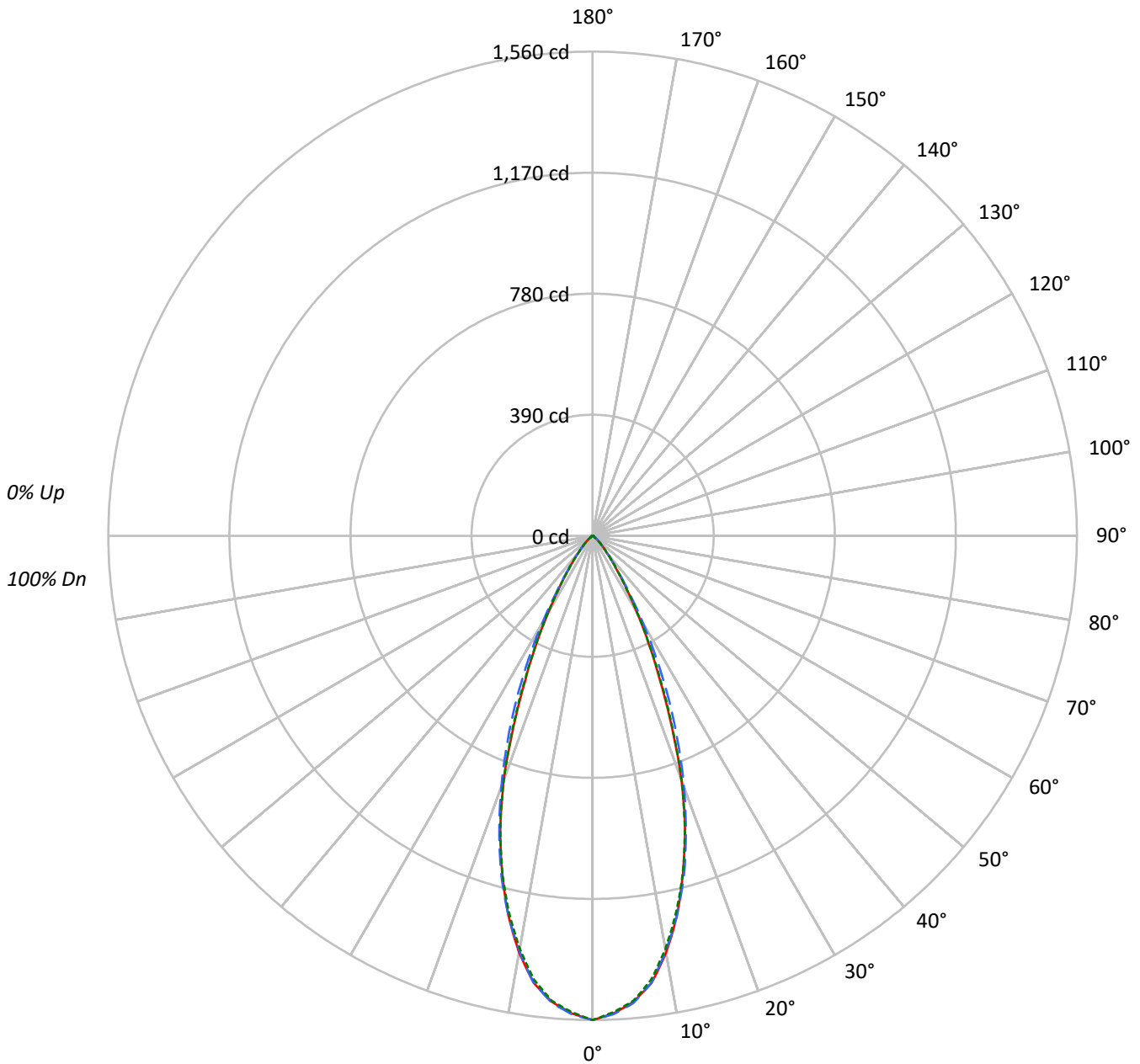
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	769694	769694	769694
5°	746534	748317	744950
10°	683327	680621	676514
15°	574765	580128	573845
20°	439551	451206	438816
25°	279150	314697	284539
30°	162360	183268	165209
35°	85825	91306	86066
40°	45276	47337	45276
45°	25327	26304	25676
50°	11820	14967	11820
55°	4301	8171	4645
60°	4934	4934	4934
65°	5253	5837	5253
70°	6491	5914	6491
75°	6100	6100	6100
80°	6535	5114	6535
85°	5095	5095	5095



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.3	16.5
10°-20°	310.1	36.6
20°-30°	250.4	29.6
30°-40°	99.0	11.7
40°-50°	30.4	3.6
50°-60°	7.8	0.9
60°-70°	4.7	0.6
70°-80°	3.5	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°	699.7	82.7
0°-40°	798.7	94.4
0°-60°	836.9	98.9
0°-90°	846.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	846.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1560	1560	1560	1560	1560	
5°	1507	1510	1511	1508	1504	140
15°	1125	1128	1136	1131	1124	309
25°	513	537	578	547	523	239
35°	142	147	152	147	143	95
45°	36	37	38	37	37	30
55°	5	7	10	7	5	6
65°	4	5	5	5	4	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°	1560.1	1560.1	1560.1	1560.1	1560.1
2.5°	1540.5	1541.4	1542.8	1541.0	1536.5
5°	1507.4	1510.1	1511.0	1507.9	1504.2
7.5°	1453.0	1449.8	1452.5	1447.1	1442.5
10°	1364.0	1359.9	1358.6	1350.4	1350.4
12.5°	1254.2	1252.9	1253.8	1249.7	1243.3
15°	1125.3	1128.5	1135.8	1131.2	1123.5
17.5°	988.8	993.3	999.7	998.3	987.9
20°	837.2	850.4	859.4	850.8	835.8
22.5°	664.8	692.9	716.0	697.9	673.4
25°	512.8	537.3	578.1	547.2	522.7
27.5°	388.9	406.6	443.8	413.4	396.6
30°	285.0	295.9	321.7	301.8	290.0
32.5°	203.7	211.5	222.3	210.5	204.6
35°	142.5	146.6	151.6	147.0	142.9
37.5°	100.3	101.6	105.3	101.6	99.8
40°	70.3	70.8	73.5	71.2	70.3
42.5°	50.8	50.8	52.2	51.3	50.8
45°	36.3	36.8	37.7	37.2	36.8
47.5°	25.9	26.8	26.8	27.2	25.4
50°	15.4	19.1	19.5	19.1	15.4
52.5°	8.2	11.3	14.1	11.3	8.2
55°	5.0	6.8	9.5	6.8	5.4
57.5°	5.0	5.0	6.4	5.4	5.0
60°	5.0	5.0	5.0	5.0	5.0
62.5°	5.0	5.0	5.0	5.0	5.0
65°	4.5	5.0	5.0	5.0	4.5
67.5°	4.5	4.5	4.5	4.5	4.5
70°	4.5	4.5	4.1	4.5	4.5
72.5°	4.1	4.1	3.6	4.1	4.1
75°	3.2	3.2	3.2	3.2	3.2
77.5°	2.7	2.7	2.7	2.7	2.7
80°	2.3	2.3	1.8	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)