

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: P284119

Luminaire Tested: **LDA2B209727D010 EU2B20WFL559727 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P284119
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: LDA2B209727D010 EU2B20WFL559727 2LBALPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 2000 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: 1177.2 lumens
Efficiency: N/A
Efficacy: 57.1 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

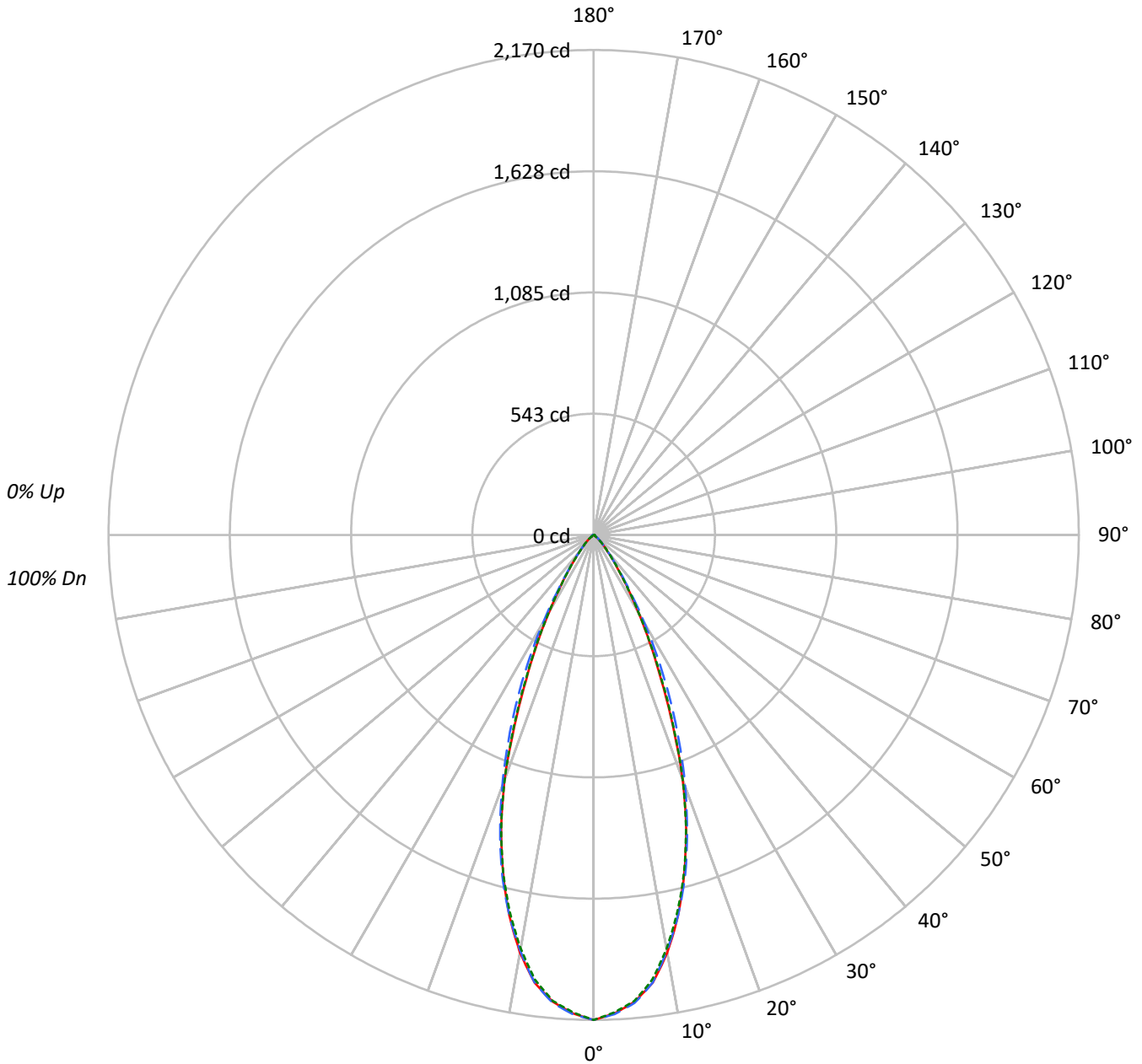
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1070792	1070792	1070792
5°	1038581	1041107	1036402
10°	950696	946888	941177
15°	799655	807061	798378
20°	611496	627772	610499
25°	388350	437832	395862
30°	225823	254991	229811
35°	119373	127022	119794
40°	62987	65885	62987
45°	35235	36560	35653
50°	16502	20800	16502
55°	5935	11440	6537
60°	6808	6808	6808
65°	7355	8055	7355
70°	9088	8222	9088
75°	8387	8387	8387
80°	9092	7103	9092
85°	7359	7359	7359



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.7	16.5
10°-20°	431.4	36.6
20°-30°	348.4	29.6
30°-40°	137.7	11.7
40°-50°	42.3	3.6
50°-60°	10.9	0.9
60°-70°	6.6	0.6
70°-80°	4.8	0.4
80°-90°	1.4	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°	973.5	82.7
0°-40°	1111.2	94.4
0°-60°	1164.3	98.9
0°-90°	1177.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1177.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2170	2170	2170	2170	2170	
5°	2097	2101	2102	2098	2093	194
15°	1566	1570	1580	1574	1563	430
25°	713	747	804	761	727	332
35°	198	204	211	204	199	133
45°	50	51	52	52	51	41
55°	7	10	13	10	8	9
65°	6	7	7	7	6	6
75°	4	4	4	4	4	5
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°	2170.4	2170.4	2170.4	2170.4	2170.4
2.5°	2143.2	2144.5	2146.4	2143.9	2137.5
5°	2097.1	2100.9	2102.2	2097.8	2092.7
7.5°	2021.4	2017.0	2020.8	2013.2	2006.9
10°	1897.7	1892.0	1890.1	1878.7	1878.7
12.5°	1744.9	1743.0	1744.2	1738.6	1729.7
15°	1565.6	1570.0	1580.1	1573.8	1563.1
17.5°	1375.6	1381.9	1390.7	1388.8	1374.3
20°	1164.7	1183.0	1195.7	1183.7	1162.8
22.5°	924.8	964.0	996.2	970.9	936.8
25°	713.4	747.4	804.3	761.3	727.2
27.5°	541.0	565.6	617.4	575.1	551.7
30°	396.4	411.6	447.6	419.8	403.4
32.5°	283.4	294.2	309.3	292.9	284.7
35°	198.2	203.9	210.9	204.5	198.9
37.5°	139.5	141.4	146.5	141.4	138.9
40°	97.8	98.5	102.3	99.1	97.8
42.5°	70.7	70.7	72.6	71.3	70.7
45°	50.5	51.1	52.4	51.8	51.1
47.5°	36.0	37.2	37.2	37.9	35.4
50°	21.5	26.5	27.1	26.5	21.5
52.5°	11.4	15.8	19.6	15.8	11.4
55°	6.9	9.5	13.3	9.5	7.6
57.5°	6.9	6.9	8.8	7.6	6.9
60°	6.9	6.9	6.9	6.9	6.9
62.5°	6.9	6.9	6.9	6.9	6.9
65°	6.3	6.9	6.9	6.9	6.3
67.5°	6.3	6.3	6.3	6.3	6.3
70°	6.3	6.3	5.7	6.3	6.3
72.5°	5.7	5.7	5.1	5.7	5.7
75°	4.4	4.4	4.4	4.4	4.4
77.5°	3.8	3.8	3.8	3.8	3.8
80°	3.2	3.2	2.5	3.2	3.2
82.5°	1.9	1.9	1.9	1.9	1.9
85°	1.3	1.3	1.3	1.3	1.3
87.5°	0.6	0.6	0.6	0.6	0.6
90°	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)