

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: P284096

Luminaire Tested: **LDA2B209035D010 EU2B20WFL559035 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P284096
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: LDA2B209035D010 EU2B20WFL559035 2LBAPINSQ1MW
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in Adj SQ PinHole, MW

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1544.6 lumens
Efficiency: N/A
Efficacy: 75.0 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

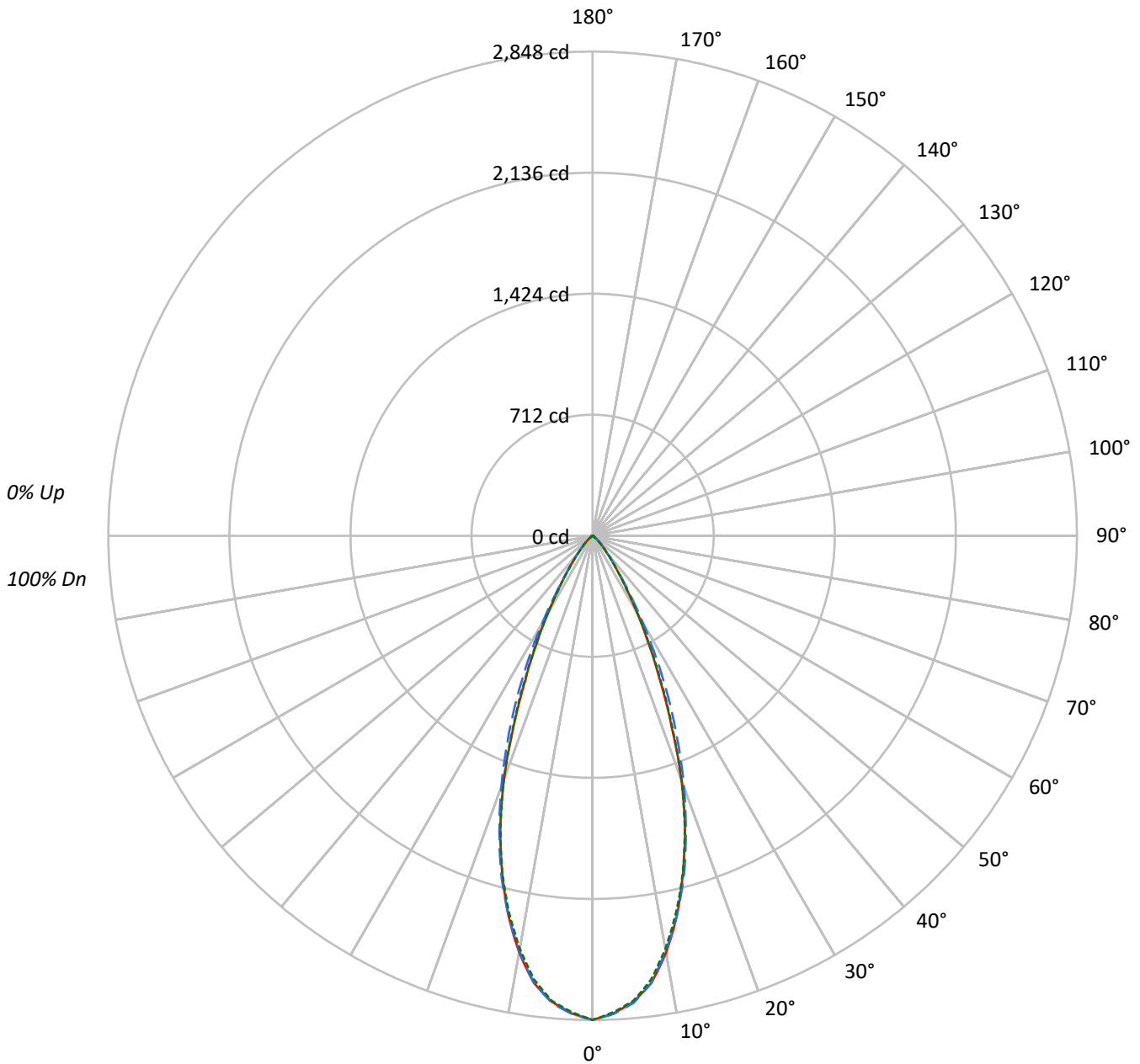
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1404946	1404946	1404946
5°	1362769	1366038	1359897
10°	1247372	1242412	1234948
15°	1049215	1058971	1047529
20°	802343	823659	801083
25°	509525	574468	519433
30°	296350	334576	301534
35°	156654	166652	157136
40°	82694	86430	82694
45°	46259	48003	46817
50°	21644	27324	21644
55°	7827	14967	8515
60°	8979	8979	8979
65°	9689	10623	9689
70°	11973	10819	11973
75°	11056	11056	11056
80°	11649	9376	11649
85°	9623	9623	9623



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.2	16.5
10°-20°	566.0	36.6
20°-30°	457.1	29.6
30°-40°	180.7	11.7
40°-50°	55.5	3.6
50°-60°	14.3	0.9
60°-70°	8.7	0.6
70°-80°	6.4	0.4
80°-90°	1.9	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°	1277.3	82.7
0°-40°	1458.0	94.4
0°-60°	1527.7	98.9
0°-90°	1544.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1544.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2848	2848	2848	2848	2848	
5°	2752	2757	2758	2752	2746	255
15°	2054	2060	2073	2065	2051	564
25°	936	981	1055	999	954	436
35°	260	268	277	268	261	174
45°	66	67	69	68	67	54
55°	9	12	17	12	10	11
65°	8	9	9	9	8	9
75°	6	6	6	6	6	6
85°	2	2	2	2	2	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2847.7	2847.7	2847.7	2847.7	2847.7
2.5°	2812.1	2813.8	2816.3	2813.0	2804.7
5°	2751.7	2756.6	2758.3	2752.5	2745.9
7.5°	2652.3	2646.5	2651.4	2641.5	2633.2
10°	2489.9	2482.5	2480.0	2465.1	2465.1
12.5°	2289.5	2287.0	2288.6	2281.2	2269.6
15°	2054.2	2060.0	2073.3	2065.0	2050.9
17.5°	1804.9	1813.2	1824.8	1822.3	1803.2
20°	1528.2	1552.3	1568.8	1553.1	1525.8
22.5°	1213.5	1264.8	1307.1	1273.9	1229.2
25°	936.0	980.7	1055.3	998.9	954.2
27.5°	709.9	742.2	810.1	754.6	723.9
30°	520.2	540.1	587.3	550.8	529.3
32.5°	371.9	386.0	405.9	384.3	373.6
35°	260.1	267.5	276.7	268.4	260.9
37.5°	183.1	185.5	192.2	185.5	182.2
40°	128.4	129.2	134.2	130.0	128.4
42.5°	92.8	92.8	95.3	93.6	92.8
45°	66.3	67.1	68.8	67.9	67.1
47.5°	47.2	48.9	48.9	49.7	46.4
50°	28.2	34.8	35.6	34.8	28.2
52.5°	14.9	20.7	25.7	20.7	14.9
55°	9.1	12.4	17.4	12.4	9.9
57.5°	9.1	9.1	11.6	9.9	9.1
60°	9.1	9.1	9.1	9.1	9.1
62.5°	9.1	9.1	9.1	9.1	9.1
65°	8.3	9.1	9.1	9.1	8.3
67.5°	8.3	8.3	8.3	8.3	8.3
70°	8.3	8.3	7.5	8.3	8.3
72.5°	7.5	7.5	6.6	7.5	7.5
75°	5.8	5.8	5.8	5.8	5.8
77.5°	5.0	5.0	5.0	5.0	5.0
80°	4.1	4.1	3.3	4.1	4.1
82.5°	2.5	2.5	2.5	2.5	2.5
85°	1.7	1.7	1.7	1.7	1.7
87.5°	0.8	0.8	0.8	0.8	0.8
90°	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)