

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: P284083

Luminaire Tested: **LDA2B209024D010 EU2B20WFL559024 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P284083
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: LDA2B209024D010 EU2B20WFL559024 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: 1214.3 lumens
Efficiency: N/A
Efficacy: 58.9 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

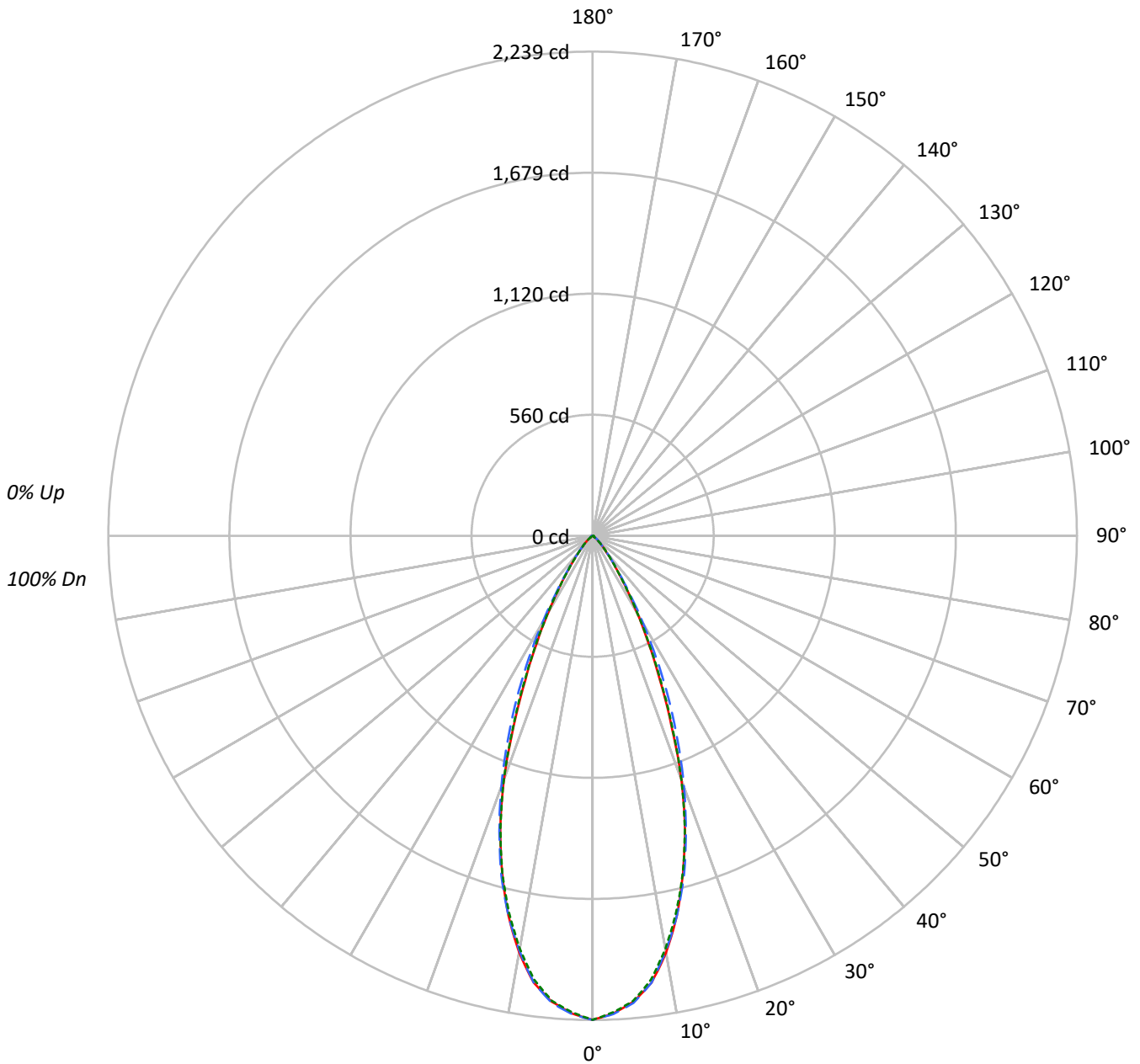
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1104440	1104440	1104440
5°	1071267	1073843	1069039
10°	980554	976646	970785
15°	824784	832446	823456
20°	630765	647513	629715
25°	400543	451605	408328
30°	232944	263024	237046
35°	123167	130997	123528
40°	64983	67946	64983
45°	36351	37677	36770
50°	16963	21491	16963
55°	6193	11784	6709
60°	7104	7104	7104
65°	7588	8405	7588
70°	9376	8511	9376
75°	8769	8769	8769
80°	9376	7387	9376
85°	7359	7359	7359



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.8	16.5
10°-20°	444.9	36.6
20°-30°	359.3	29.6
30°-40°	142.0	11.7
40°-50°	43.6	3.6
50°-60°	11.2	0.9
60°-70°	6.8	0.6
70°-80°	5.0	0.4
80°-90°	1.5	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°	1004.1	82.7
0°-40°	1146.1	94.4
0°-60°	1201.0	98.9
0°-90°	1214.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1214.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2239	2239	2239	2239	2239	
5°	2163	2167	2168	2164	2159	200
15°	1615	1619	1630	1623	1612	444
25°	736	771	830	785	750	343
35°	204	210	218	211	205	137
45°	52	53	54	53	53	42
55°	7	10	14	10	8	9
65°	6	7	7	7	6	7
75°	5	5	5	5	5	5
85°	1	1	1	1	1	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2238.6	2238.6	2238.6	2238.6	2238.6
2.5°	2210.6	2211.9	2213.9	2211.3	2204.8
5°	2163.1	2167.0	2168.3	2163.8	2158.6
7.5°	2085.0	2080.4	2084.3	2076.5	2070.0
10°	1957.3	1951.5	1949.5	1937.8	1937.8
12.5°	1799.8	1797.8	1799.1	1793.3	1784.1
15°	1614.8	1619.4	1629.8	1623.3	1612.2
17.5°	1418.8	1425.4	1434.5	1432.5	1417.5
20°	1201.4	1220.2	1233.3	1220.9	1199.4
22.5°	953.9	994.3	1027.5	1001.5	966.3
25°	735.8	771.0	829.6	785.3	750.1
27.5°	558.0	583.4	636.8	593.2	569.1
30°	408.9	424.5	461.7	433.0	416.1
32.5°	292.4	303.4	319.1	302.1	293.7
35°	204.5	210.3	217.5	211.0	205.1
37.5°	143.9	145.9	151.1	145.9	143.3
40°	100.9	101.6	105.5	102.2	100.9
42.5°	72.9	72.9	74.9	73.6	72.9
45°	52.1	52.7	54.0	53.4	52.7
47.5°	37.1	38.4	38.4	39.1	36.5
50°	22.1	27.3	28.0	27.3	22.1
52.5°	11.7	16.3	20.2	16.3	11.7
55°	7.2	9.8	13.7	9.8	7.8
57.5°	7.2	7.2	9.1	7.8	7.2
60°	7.2	7.2	7.2	7.2	7.2
62.5°	7.2	7.2	7.2	7.2	7.2
65°	6.5	7.2	7.2	7.2	6.5
67.5°	6.5	6.5	6.5	6.5	6.5
70°	6.5	6.5	5.9	6.5	6.5
72.5°	5.9	5.9	5.2	5.9	5.9
75°	4.6	4.6	4.6	4.6	4.6
77.5°	3.9	3.9	3.9	3.9	3.9
80°	3.3	3.3	2.6	3.3	3.3
82.5°	2.0	2.0	2.0	2.0	2.0
85°	1.3	1.3	1.3	1.3	1.3
87.5°	0.7	0.7	0.7	0.7	0.7
90°	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)