

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: P284081

Luminaire Tested: **LDA2B209024D010 EU2B20WFL559024 2LBALPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P284081
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 2LBALPINSQ1MW
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MW

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1240.5 lumens
Efficiency: N/A
Efficacy: 60.2 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

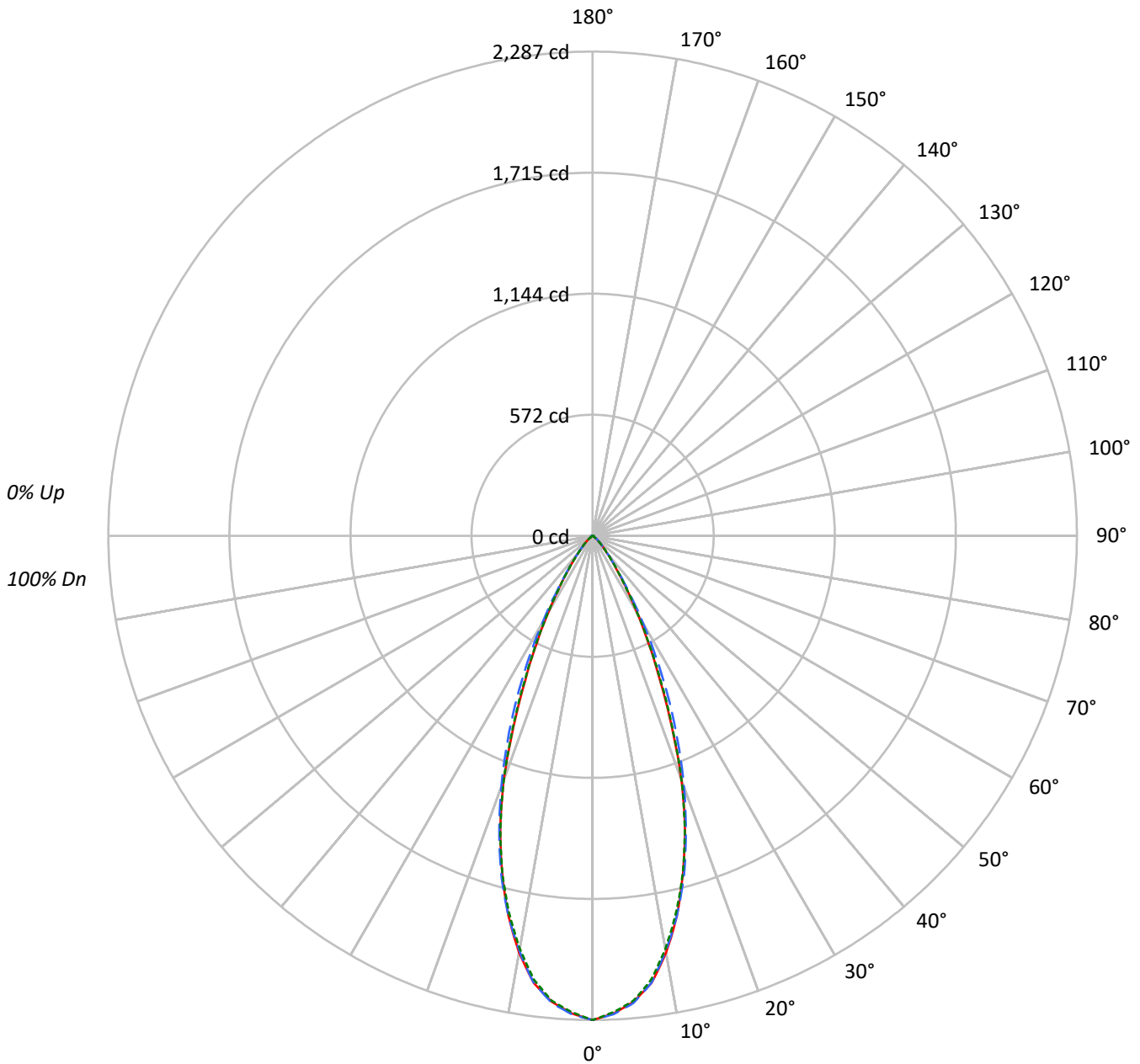
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94					94			
2	109	104	101	98	107	103	99	96	100	97	94	97	94	92	94	92	90	89					89			
3	104	98	94	90	102	97	93	89	94	91	88	92	89	87	90	87	85	84					84			
4	100	93	88	84	98	92	87	83	90	86	82	88	84	81	86	83	81	79					79			
5	95	88	82	79	94	87	82	78	85	81	78	84	80	77	82	79	76	75					75			
6	91	83	78	74	90	82	77	74	81	77	73	80	76	73	78	75	72	71					71			
7	87	79	74	70	86	78	73	70	77	73	69	76	72	69	75	71	69	67					67			
8	84	75	70	66	83	75	70	66	74	69	66	73	69	66	72	68	65	64					64			
9	81	72	67	63	80	71	66	63	71	66	63	70	66	63	69	65	62	61					61			
10	77	69	64	60	76	68	63	60	68	63	60	67	63	60	66	62	60	58					58			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1128368	1128368	1128368
5°	1094445	1097070	1092117
10°	1001795	997787	991776
15°	842661	850476	841282
20°	644363	661479	643313
25°	409199	461349	417147
30°	238014	268664	242173
35°	125817	133827	126178
40°	66400	69427	66400
45°	37119	38514	37607
50°	17346	21951	17346
55°	6279	12042	6881
60°	7203	7203	7203
65°	7822	8522	7822
70°	9665	8655	9665
75°	8959	8959	8959
80°	9376	7671	9376
85°	7359	7359	7359



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.2	16.5
10°-20°	454.6	36.6
20°-30°	367.1	29.6
30°-40°	145.1	11.7
40°-50°	44.5	3.6
50°-60°	11.5	0.9
60°-70°	7.0	0.6
70°-80°	5.1	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°	1025.8	82.7
0°-40°	1170.9	94.4
0°-60°	1226.9	98.9
0°-90°	1240.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1240.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2287	2287	2287	2287	2287	
5°	2210	2214	2215	2211	2205	205
15°	1650	1654	1665	1658	1647	453
25°	752	788	848	802	766	350
35°	209	215	222	216	210	140
45°	53	54	55	54	54	43
55°	7	10	14	10	8	9
65°	7	7	7	7	7	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°	2287.1	2287.1	2287.1	2287.1	2287.1
2.5°	2258.4	2259.8	2261.8	2259.1	2252.5
5°	2209.9	2213.9	2215.2	2210.6	2205.2
7.5°	2130.1	2125.4	2129.4	2121.4	2114.8
10°	1999.7	1993.7	1991.7	1979.7	1979.7
12.5°	1838.7	1836.7	1838.0	1832.0	1822.7
15°	1649.8	1654.4	1665.1	1658.4	1647.1
17.5°	1449.5	1456.2	1465.5	1463.5	1448.2
20°	1227.3	1246.6	1259.9	1247.3	1225.3
22.5°	974.6	1015.8	1049.7	1023.1	987.2
25°	751.7	787.6	847.5	802.3	766.3
27.5°	570.1	596.0	650.6	606.0	581.4
30°	417.8	433.7	471.6	442.4	425.1
32.5°	298.7	310.0	326.0	308.7	300.0
35°	208.9	214.9	222.2	215.5	209.5
37.5°	147.0	149.0	154.3	149.0	146.4
40°	103.1	103.8	107.8	104.4	103.1
42.5°	74.5	74.5	76.5	75.2	74.5
45°	53.2	53.9	55.2	54.5	53.9
47.5°	37.9	39.2	39.2	39.9	37.3
50°	22.6	27.9	28.6	27.9	22.6
52.5°	12.0	16.6	20.6	16.6	12.0
55°	7.3	10.0	14.0	10.0	8.0
57.5°	7.3	7.3	9.3	8.0	7.3
60°	7.3	7.3	7.3	7.3	7.3
62.5°	7.3	7.3	7.3	7.3	7.3
65°	6.7	7.3	7.3	7.3	6.7
67.5°	6.7	6.7	6.7	6.7	6.7
70°	6.7	6.7	6.0	6.7	6.7
72.5°	6.0	6.0	5.3	6.0	6.0
75°	4.7	4.7	4.7	4.7	4.7
77.5°	4.0	4.0	4.0	4.0	4.0
80°	3.3	3.3	2.7	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)