

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: P284052

Luminaire Tested: **LDA2B208027D010 EU2B20WFL558027 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P284052
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: LDA2B208027D010 EU2B20WFL558027 2LBALPINSQ1MB
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in Adj SQ Pinhole w-lens, MB

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1632.1 lumens
Efficiency: N/A
Efficacy: 79.2 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

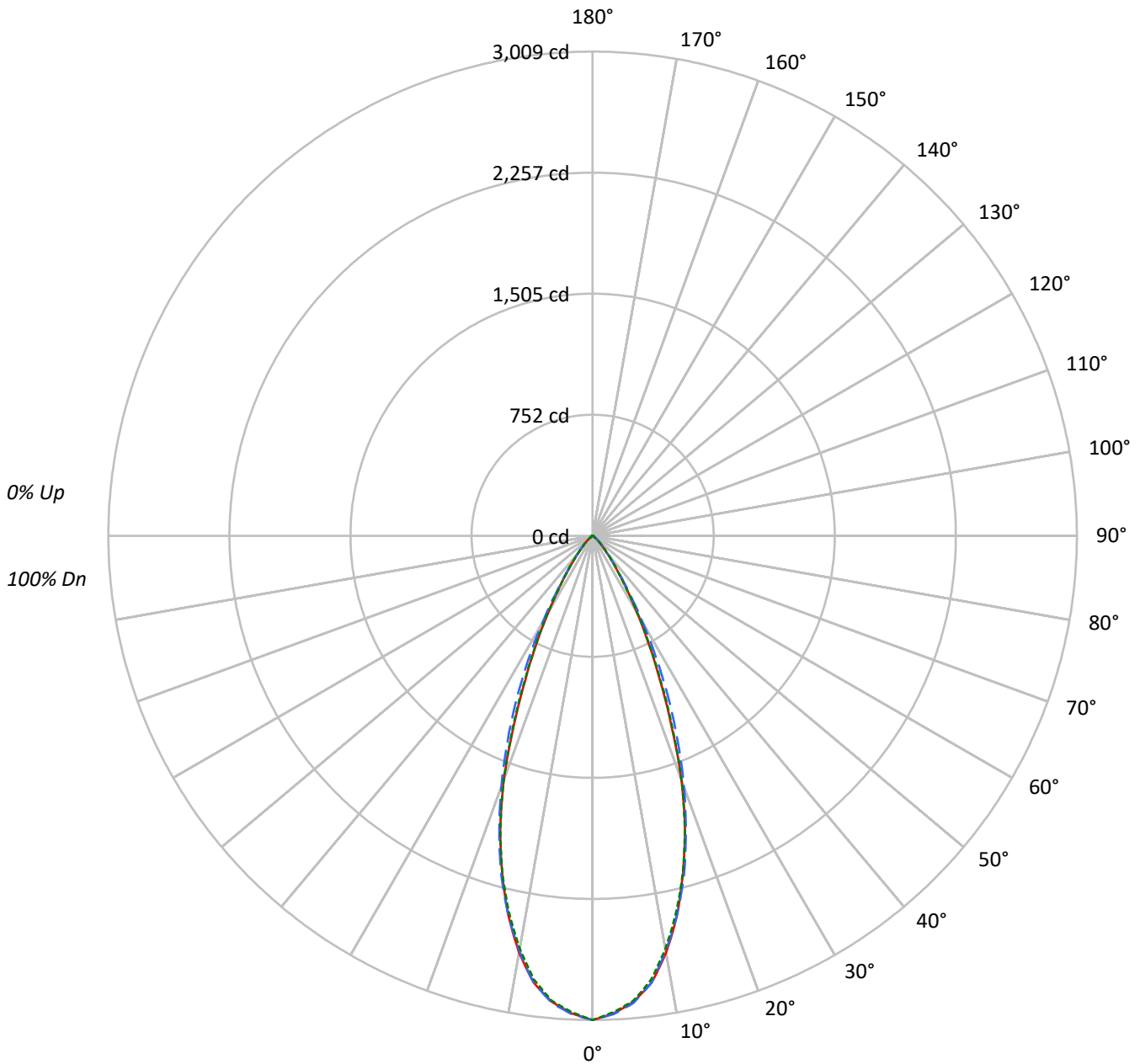
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1484526	1484526	1484526
5°	1439929	1443395	1436908
10°	1318009	1312749	1304884
15°	1108668	1118934	1106880
20°	847810	870333	846445
25°	538376	606966	548883
30°	313099	353490	318625
35°	165508	176047	166050
40°	87396	91325	87396
45°	48840	50654	49468
50°	22873	28859	22873
55°	8257	15827	9032
60°	9473	9473	9473
65°	10273	11207	10273
70°	12694	11396	12694
75°	11628	11628	11628
80°	12501	9944	12501
85°	10189	10189	10189



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.6	16.5
10°-20°	598.1	36.6
20°-30°	483.0	29.6
30°-40°	190.9	11.7
40°-50°	58.6	3.6
50°-60°	15.1	0.9
60°-70°	9.1	0.6
70°-80°	6.7	0.4
80°-90°	2.0	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°	1349.6	82.7
0°-40°	1540.5	94.4
0°-60°	1614.2	98.9
0°-90°	1632.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1632.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3009	3009	3009	3009	3009	
5°	2908	2913	2914	2908	2901	269
15°	2171	2177	2191	2182	2167	596
25°	989	1036	1115	1056	1008	460
35°	275	283	292	284	276	184
45°	70	71	73	72	71	57
55°	10	13	18	13	10	12
65°	9	10	10	10	9	9
75°	6	6	6	6	6	7
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°	3009.0	3009.0	3009.0	3009.0	3009.0
2.5°	2971.4	2973.1	2975.8	2972.3	2963.5
5°	2907.5	2912.8	2914.5	2908.4	2901.4
7.5°	2802.5	2796.3	2801.6	2791.1	2782.3
10°	2630.9	2623.1	2620.4	2604.7	2604.7
12.5°	2419.1	2416.5	2418.3	2410.4	2398.1
15°	2170.6	2176.7	2190.7	2181.9	2167.1
17.5°	1907.1	1915.9	1928.1	1925.5	1905.4
20°	1614.8	1640.2	1657.7	1641.0	1612.2
22.5°	1282.2	1336.5	1381.1	1346.1	1298.8
25°	989.0	1036.3	1115.0	1055.5	1008.3
27.5°	750.1	784.2	856.0	797.3	764.9
30°	549.6	570.6	620.5	582.0	559.3
32.5°	393.0	407.9	428.9	406.1	394.7
35°	274.8	282.7	292.3	283.6	275.7
37.5°	193.4	196.1	203.1	196.1	192.5
40°	135.7	136.5	141.8	137.4	135.7
42.5°	98.0	98.0	100.7	98.9	98.0
45°	70.0	70.9	72.6	71.8	70.9
47.5°	49.9	51.6	51.6	52.5	49.0
50°	29.8	36.8	37.6	36.8	29.8
52.5°	15.8	21.9	27.1	21.9	15.8
55°	9.6	13.1	18.4	13.1	10.5
57.5°	9.6	9.6	12.3	10.5	9.6
60°	9.6	9.6	9.6	9.6	9.6
62.5°	9.6	9.6	9.6	9.6	9.6
65°	8.8	9.6	9.6	9.6	8.8
67.5°	8.8	8.8	8.8	8.8	8.8
70°	8.8	8.8	7.9	8.8	8.8
72.5°	7.9	7.9	7.0	7.9	7.9
75°	6.1	6.1	6.1	6.1	6.1
77.5°	5.3	5.3	5.3	5.3	5.3
80°	4.4	4.4	3.5	4.4	4.4
82.5°	2.6	2.6	2.6	2.6	2.6
85°	1.8	1.8	1.8	1.8	1.8
87.5°	0.9	0.9	0.9	0.9	0.9
90°	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)