

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: P283715

Luminaire Tested: **LDA2B208027D010 EU2B20FL408027 2LBALPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283715
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-15)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B208027D010 EU2B20FL408027 2LBALPINSQ1MW
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MW

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): 0.55 / 0.55 / 0.55
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

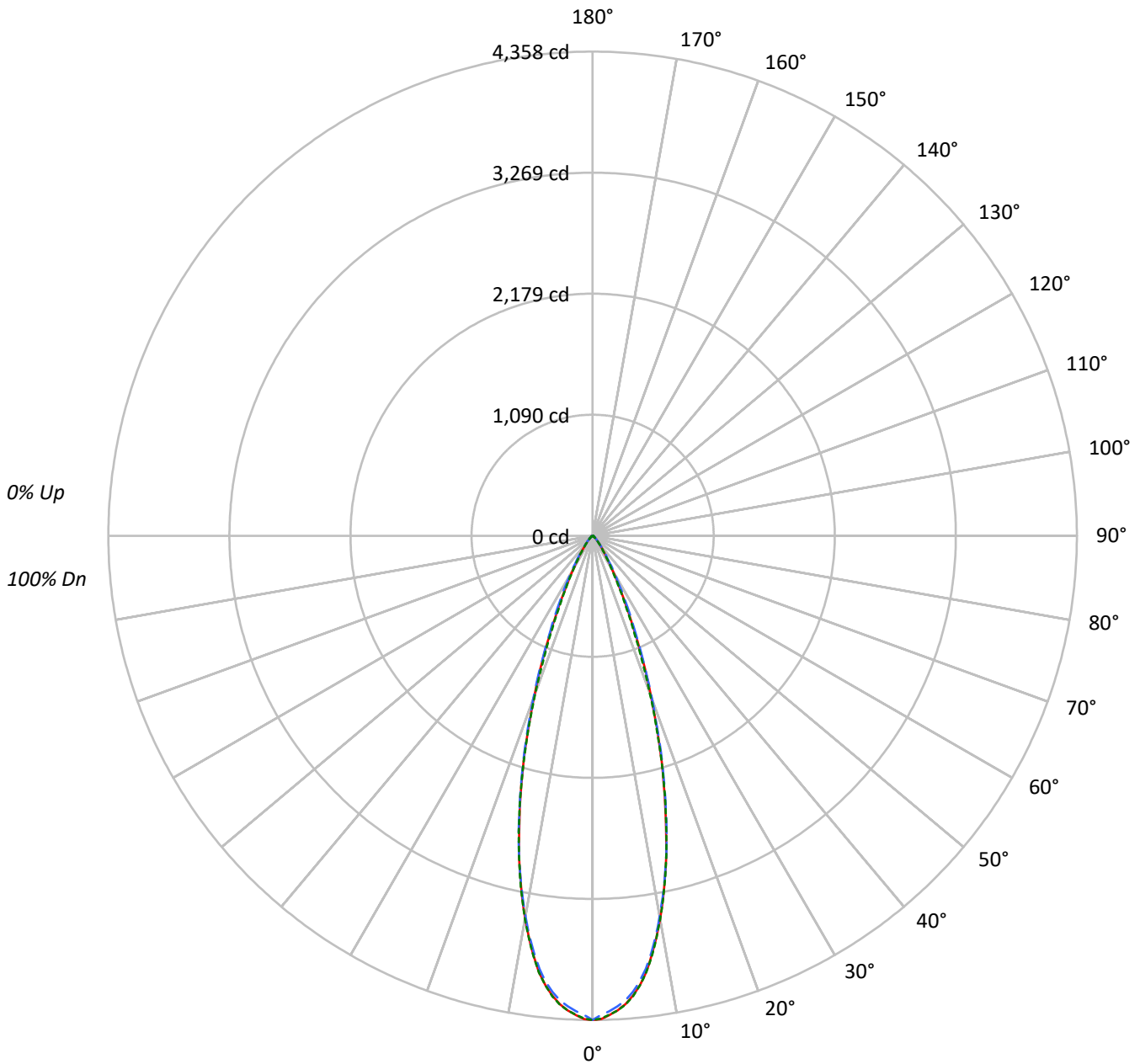
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95																			
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90																			
3	105	100	96	92	104	99	95	92	96	93	90	94	91	89	92	89	88	86																			
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	83	82																			
5	98	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	79																			
6	94	87	82	78	93	86	81	78	84	80	77	83	80	77	82	79	76	75																			
7	91	83	78	75	89	82	78	74	81	77	74	80	76	74	79	76	73	72																			
8	87	80	75	71	86	79	74	71	78	74	71	77	73	71	76	73	70	69																			
9	84	77	72	69	83	76	72	68	75	71	68	74	71	68	74	70	68	67																			
10	82	74	69	66	81	73	69	66	73	69	66	72	68	65	71	68	65	64																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2150317	2150317	2150317
5°	2057897	2042445	2061067
10°	1753254	1742233	1755058
15°	1292237	1300665	1296426
20°	806700	821611	788902
25°	416711	447087	395753
30°	199789	229013	190389
35°	103111	114133	96486
40°	57770	60733	54872
45°	35165	35165	33839
50°	18267	22489	18267
55°	9462	14967	10236
60°	10854	10854	10854
65°	11791	11791	11791
70°	14569	13271	14569
75°	13915	13915	13915
80°	13069	13069	13069
85°	10189	10189	10189



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	374.9	23.0
10°-20°	688.6	42.2
20°-30°	373.3	22.9
30°-40°	119.8	7.3
40°-50°	40.9	2.5
50°-60°	14.3	0.9
60°-70°	10.4	0.6
70°-80°	7.6	0.5
80°-90°	2.2	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°	1436.9	88.0
0°-40°	1556.7	95.4
0°-60°	1611.9	98.8
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°	4358	4358	4358	4358	4358	
5°	4155	4130	4124	4165	4162	376
15°	2530	2551	2546	2558	2538	686
25°	766	800	821	765	727	367
35°	171	179	190	172	160	115
45°	50	51	50	50	48	40
55°	11	14	17	14	12	12
65°	10	11	10	11	10	10
75°	7	7	7	7	7	8
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°	4358.5	4358.5	4358.5	4358.5	4358.5
1°	4351.2	4320.1	4315.5	4355.8	4346.6
2°	4316.4	4287.1	4282.5	4322.8	4314.6
3°	4278.0	4251.4	4242.3	4284.4	4278.9
4°	4226.7	4202.0	4193.7	4235.8	4231.3
5°	4155.3	4129.6	4124.1	4165.3	4161.7
6°	4067.4	4046.3	4036.2	4077.4	4070.1
7°	3957.5	3938.3	3927.3	3957.5	3961.1
8°	3814.6	3805.5	3792.7	3822.9	3822.9
9°	3662.6	3654.4	3640.7	3668.1	3668.1
10°	3499.7	3494.2	3477.7	3503.3	3503.3
11°	3321.1	3318.4	3306.4	3327.5	3327.5
12°	3133.4	3139.8	3128.8	3147.1	3140.7
13°	2945.7	2942.9	2943.8	2957.6	2947.5
14°	2733.2	2749.7	2752.5	2760.7	2745.1
15°	2530.0	2551.0	2546.5	2558.4	2538.2
16°	2322.1	2345.9	2345.0	2347.8	2328.5
17°	2128.0	2141.7	2142.6	2139.9	2116.1
18°	1921.1	1940.3	1940.3	1935.7	1907.3
19°	1718.7	1733.3	1743.4	1733.3	1700.4
20°	1536.5	1546.6	1564.9	1539.2	1502.6
21°	1361.6	1370.7	1386.3	1356.1	1315.8
22°	1194.0	1205.9	1220.6	1185.8	1143.7
23°	1037.4	1064.9	1070.4	1022.8	987.1
24°	893.7	924.8	934.0	885.4	847.9
25°	765.5	800.3	821.3	764.6	727.0
26°	654.7	688.6	714.2	657.4	621.7
27°	557.6	593.3	619.9	566.8	532.9
28°	474.3	509.1	536.6	487.1	455.1
29°	412.0	432.2	459.7	418.5	389.2
30°	350.7	372.7	402.0	359.9	334.2
32.5°	240.8	252.7	275.6	250.0	229.8
35°	171.2	178.6	189.5	172.1	160.2
37.5°	121.8	125.4	131.9	121.8	115.4
40°	89.7	91.6	94.3	88.8	85.2
42.5°	66.8	67.8	67.8	65.9	64.1
45°	50.4	51.3	50.4	50.4	48.5
47.5°	36.6	39.4	38.5	38.5	35.7
50°	23.8	29.3	29.3	28.4	23.8
52.5°	14.7	20.1	22.9	20.1	15.6
55°	11.0	13.7	17.4	13.7	11.9
57.5°	11.0	11.0	12.8	11.0	11.0
60°	11.0	11.0	11.0	11.0	11.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	10.1	10.1	10.1	10.1	10.1
70°	10.1	10.1	9.2	10.1	10.1
72.5°	9.2	9.2	8.2	9.2	8.2
75°	7.3	7.3	7.3	7.3	7.3
77.5°	5.5	5.5	5.5	5.5	5.5
80°	4.6	4.6	4.6	4.6	4.6
82.5°	2.7	2.7	2.7	3.7	2.7
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°







62.5°	<i>11.0</i>	11.0	11.0	11.0	11.0
65°	<i>10.1</i>	11.0	10.1	11.0	10.1



(END OF REPORT)