

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: P283728

Luminaire Tested: **LDA2B208035D010 EU2B20FL408035 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283728
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: LDA2B208035D010 EU2B20FL408035 2LBALPINSQ1MB
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MB

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1620.0 lumens
Efficiency: N/A
Efficacy: 78.6 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

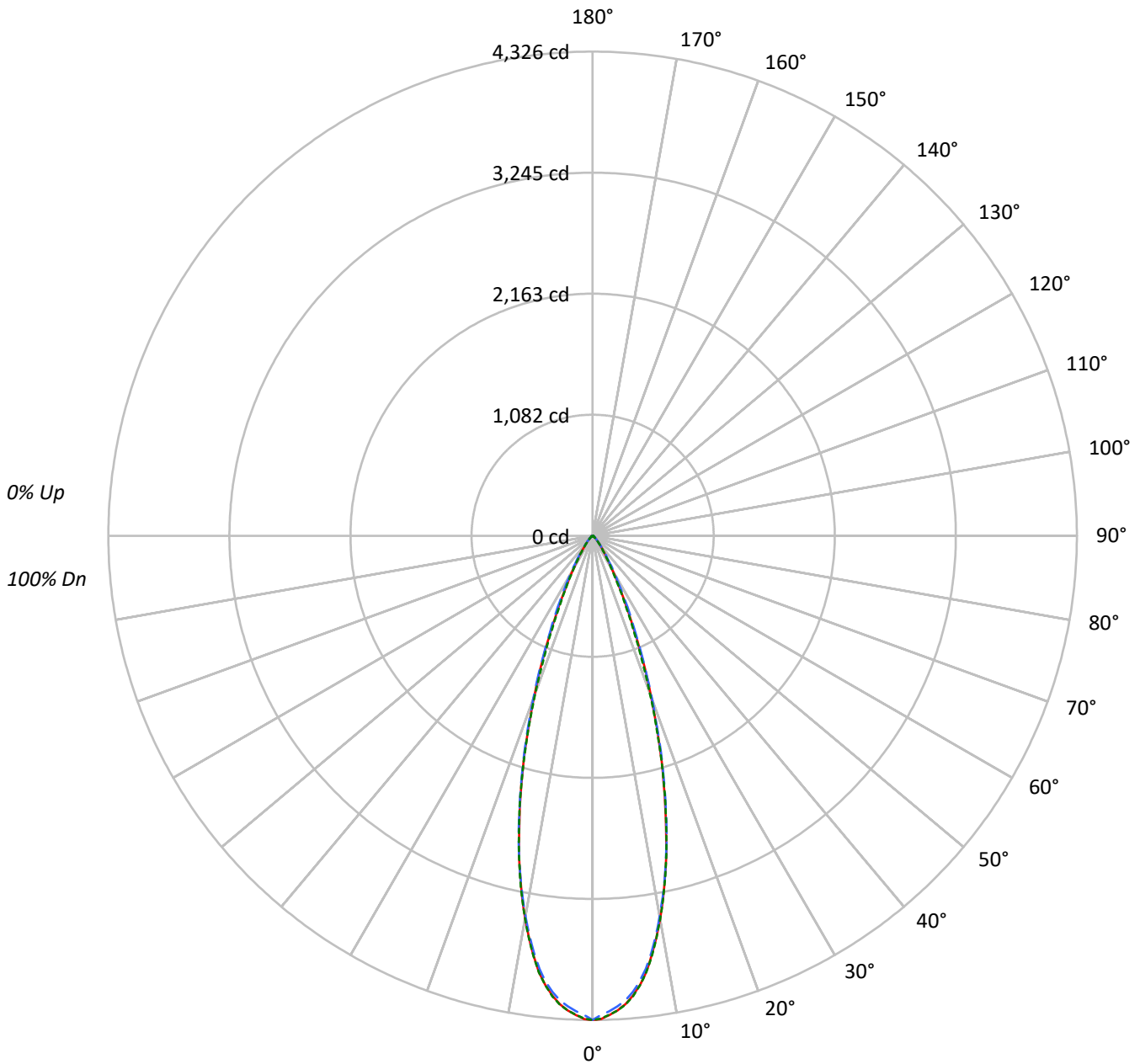
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2134431	2134431	2134431
5°	2042644	2027340	2045813
10°	1740279	1729308	1742082
15°	1282686	1291011	1286823
20°	800715	815521	783074
25°	413608	443820	392868
30°	198307	227304	188965
35°	102388	113290	95823
40°	57384	60282	54421
45°	34886	34886	33630
50°	18114	22335	18114
55°	9376	14881	10150
60°	10755	10755	10755
65°	11674	11674	11674
70°	14425	13127	14425
75°	13915	13915	13915
80°	12785	12785	12785
85°	10189	10189	10189



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	372.1	23.0
10°-20°	683.5	42.2
20°-30°	370.6	22.9
30°-40°	119.0	7.3
40°-50°	40.6	2.5
50°-60°	14.2	0.9
60°-70°	10.3	0.6
70°-80°	7.6	0.5
80°-90°	2.1	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°	1426.2	88.0
0°-40°	1545.2	95.4
0°-60°	1600.0	98.8
0°-90°	1620.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1620.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4326	4326	4326	4326	4326	
5°	4124	4099	4094	4134	4131	373
15°	2511	2532	2528	2539	2519	681
25°	760	794	815	759	722	364
35°	170	177	188	171	159	114
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°	4326.3	4326.3	4326.3	4326.3	4326.3
1°	4319.0	4288.1	4283.6	4323.6	4314.5
2°	4284.5	4255.4	4250.9	4290.9	4282.7
3°	4246.3	4220.0	4210.9	4252.7	4247.2
4°	4195.4	4170.9	4162.7	4204.5	4200.0
5°	4124.5	4099.1	4093.6	4134.5	4130.9
6°	4037.3	4016.4	4006.4	4047.3	4040.0
7°	3928.2	3909.1	3898.2	3928.2	3931.8
8°	3786.4	3777.3	3764.6	3794.6	3794.6
9°	3635.5	3627.4	3613.7	3641.0	3641.0
10°	3473.8	3468.3	3451.9	3477.4	3477.4
11°	3296.5	3293.8	3282.0	3302.9	3302.9
12°	3110.2	3116.6	3105.7	3123.8	3117.5
13°	2923.9	2921.2	2922.1	2935.7	2925.7
14°	2713.0	2729.4	2732.1	2740.3	2724.8
15°	2511.3	2532.2	2527.6	2539.4	2519.4
16°	2304.9	2328.6	2327.7	2330.4	2311.3
17°	2112.3	2125.9	2126.8	2124.1	2100.4
18°	1906.8	1925.9	1925.9	1921.4	1893.2
19°	1706.0	1720.5	1730.5	1720.5	1687.8
20°	1525.1	1535.1	1553.3	1527.8	1491.5
21°	1351.5	1360.6	1376.1	1346.1	1306.1
22°	1185.2	1197.0	1211.5	1177.0	1135.2
23°	1029.8	1057.0	1062.5	1015.2	979.8
24°	887.1	918.0	927.1	878.9	841.6
25°	759.8	794.4	815.3	758.9	721.7
26°	649.9	683.5	708.9	652.6	617.1
27°	553.5	589.0	615.3	562.6	529.0
28°	470.8	505.3	532.6	483.5	451.7
29°	409.0	429.0	456.3	415.4	386.3
30°	348.1	369.9	399.0	357.2	331.7
32.5°	239.0	250.9	273.6	248.1	228.1
35°	170.0	177.2	188.1	170.9	159.1
37.5°	120.9	124.5	130.9	120.9	114.5
40°	89.1	90.9	93.6	88.2	84.5
42.5°	66.3	67.3	67.3	65.4	63.6
45°	50.0	50.9	50.0	50.0	48.2
47.5°	36.4	39.1	38.2	38.2	35.4
50°	23.6	29.1	29.1	28.2	23.6
52.5°	14.5	20.0	22.7	20.0	15.5
55°	10.9	13.6	17.3	13.6	11.8
57.5°	10.9	10.9	12.7	10.9	10.9
60°	10.9	10.9	10.9	10.9	10.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	10.0	10.0	10.0	10.0	10.0
70°	10.0	10.0	9.1	10.0	10.0
72.5°	9.1	9.1	8.2	9.1	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°	4.5	4.5	4.5	4.5	4.5
82.5°	2.7	2.7	2.7	3.6	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°	10.9	10.9	10.9	10.9	10.9
65°	10.0	10.9	10.0	10.9	10.0



(END OF REPORT)