

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: P283742

Luminaire Tested: **LDA2B209024D010 EU2B20FL409024 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283742
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: LDA2B209024D010 EU2B20FL409024 2LBAPINSQ1MW
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MW

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1264.6 lumens
Efficiency: N/A
Efficacy: 61.4 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

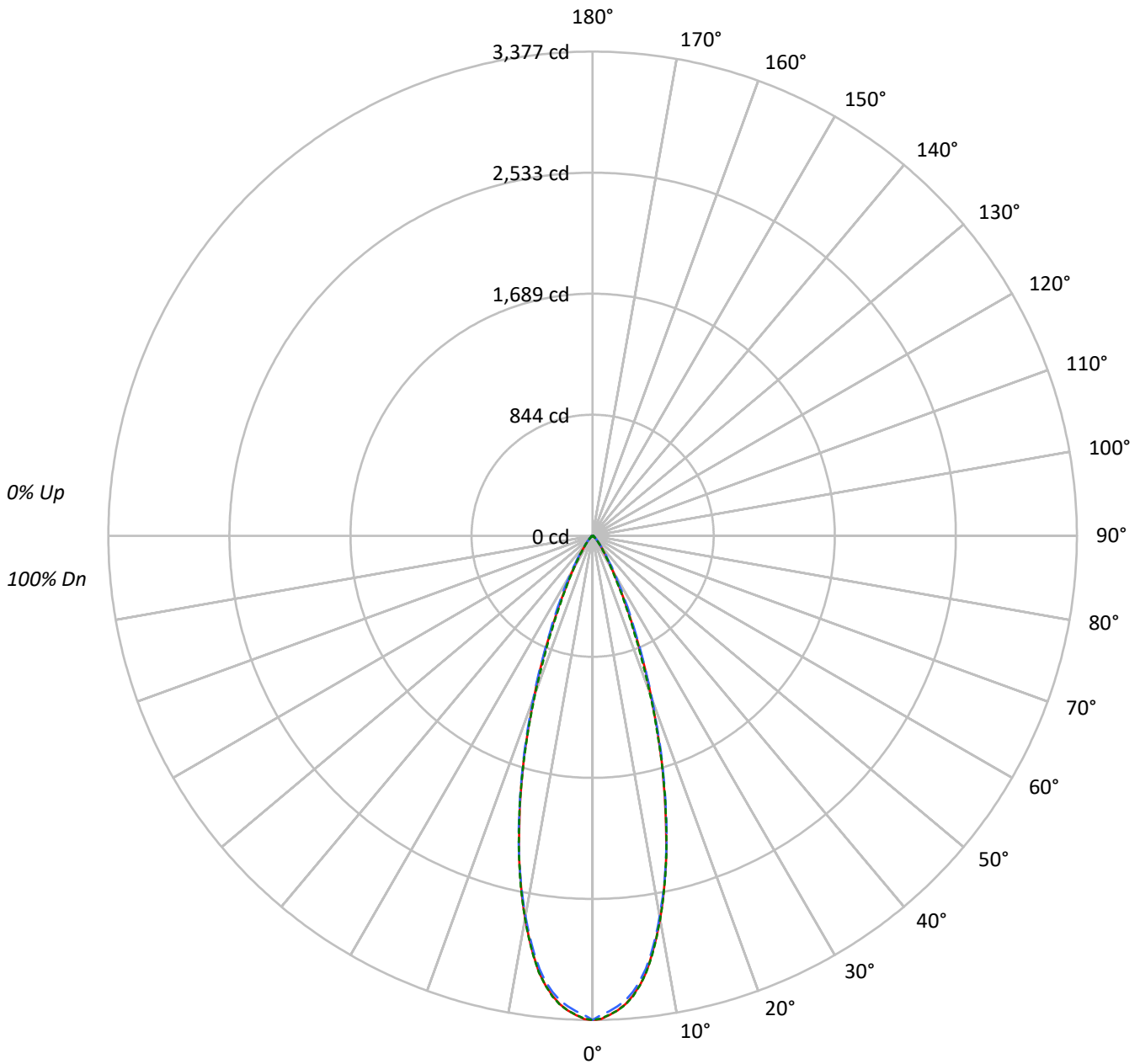
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1666181	1666181	1666181
5°	1594545	1582609	1597021
10°	1358488	1349971	1359890
15°	1001254	1007792	1004523
20°	625042	636592	611286
25°	322863	346434	306641
30°	154783	177457	147548
35°	79923	88475	74804
40°	44761	47079	42507
45°	27211	27211	26234
50°	14123	17423	14123
55°	7311	11612	7913
60°	8387	8387	8387
65°	9106	9106	9106
70°	11251	10242	11251
75°	10865	10865	10865
80°	9944	9944	9944
85°	7925	7925	7925



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.5	23.0
10°-20°	533.6	42.2
20°-30°	289.3	22.9
30°-40°	92.9	7.3
40°-50°	31.7	2.5
50°-60°	11.1	0.9
60°-70°	8.1	0.6
70°-80°	5.9	0.5
80°-90°	1.7	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°	1113.4	88.0
0°-40°	1206.2	95.4
0°-60°	1248.9	98.8
0°-90°	1264.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1264.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3377	3377	3377	3377	3377	
5°	3220	3200	3196	3228	3225	291
15°	1960	1977	1973	1982	1967	531
25°	593	620	636	592	563	284
35°	133	138	147	133	124	89
45°	39	40	39	39	38	31
55°	8	11	14	11	9	9
65°	8	8	8	8	8	8
75°	6	6	6	6	6	6
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°	3377.2	3377.2	3377.2	3377.2	3377.2
1°	3371.5	3347.4	3343.9	3375.1	3368.0
2°	3344.6	3321.9	3318.3	3349.5	3343.1
3°	3314.8	3294.2	3287.1	3319.7	3315.5
4°	3275.0	3255.9	3249.5	3282.1	3278.6
5°	3219.7	3199.8	3195.6	3227.5	3224.7
6°	3151.6	3135.3	3127.5	3159.4	3153.7
7°	3066.4	3051.5	3043.0	3066.4	3069.3
8°	2955.8	2948.7	2938.7	2962.1	2962.1
9°	2838.0	2831.6	2821.0	2842.2	2842.2
10°	2711.7	2707.4	2694.7	2714.5	2714.5
11°	2573.3	2571.2	2562.0	2578.3	2578.3
12°	2427.9	2432.9	2424.4	2438.5	2433.6
13°	2282.5	2280.3	2281.0	2291.7	2283.9
14°	2117.8	2130.6	2132.7	2139.1	2127.1
15°	1960.3	1976.7	1973.1	1982.3	1966.7
16°	1799.3	1817.7	1817.0	1819.1	1804.3
17°	1648.9	1659.5	1660.2	1658.1	1639.6
18°	1488.5	1503.4	1503.4	1499.9	1477.9
19°	1331.7	1343.1	1350.9	1343.1	1317.5
20°	1190.5	1198.3	1212.5	1192.7	1164.3
21°	1055.0	1062.1	1074.2	1050.8	1019.5
22°	925.2	934.4	945.8	918.8	886.2
23°	803.9	825.1	829.4	792.5	764.8
24°	692.5	716.6	723.7	686.1	657.0
25°	593.1	620.1	636.4	592.4	563.3
26°	507.3	533.5	553.4	509.4	481.7
27°	432.1	459.8	480.3	439.2	412.9
28°	367.5	394.5	415.8	377.5	352.6
29°	319.3	334.9	356.2	324.2	301.5
30°	271.7	288.8	311.5	278.8	259.0
32.5°	186.6	195.8	213.6	193.7	178.1
35°	132.7	138.4	146.9	133.4	124.2
37.5°	94.4	97.2	102.2	94.4	89.4
40°	69.5	70.9	73.1	68.8	66.0
42.5°	51.8	52.5	52.5	51.1	49.7
45°	39.0	39.7	39.0	39.0	37.6
47.5°	28.4	30.5	29.8	29.8	27.7
50°	18.4	22.7	22.7	22.0	18.4
52.5°	11.4	15.6	17.7	15.6	12.1
55°	8.5	10.6	13.5	10.6	9.2
57.5°	8.5	8.5	9.9	8.5	8.5
60°	8.5	8.5	8.5	8.5	8.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	7.8	7.8	7.8	7.8	7.8
70°	7.8	7.8	7.1	7.8	7.8
72.5°	7.1	7.1	6.4	7.1	6.4
75°	5.7	5.7	5.7	5.7	5.7
77.5°	4.3	4.3	4.3	4.3	4.3
80°	3.5	3.5	3.5	3.5	3.5
82.5°	2.1	2.1	2.1	2.8	2.1
85°	1.4	1.4	1.4	1.4	1.4
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°







62.5°	8.5	8.5	8.5	8.5	8.5
65°	7.8	8.5	7.8	8.5	7.8



(END OF REPORT)