

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: P283755

Luminaire Tested: **LDA2B209030D010 EU2B20FL409030 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283755
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: LDA2B209030D010 EU2B20FL409030 2LBAPINSQ1MB
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MB

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1376.2 lumens
Efficiency: N/A
Efficacy: 66.8 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

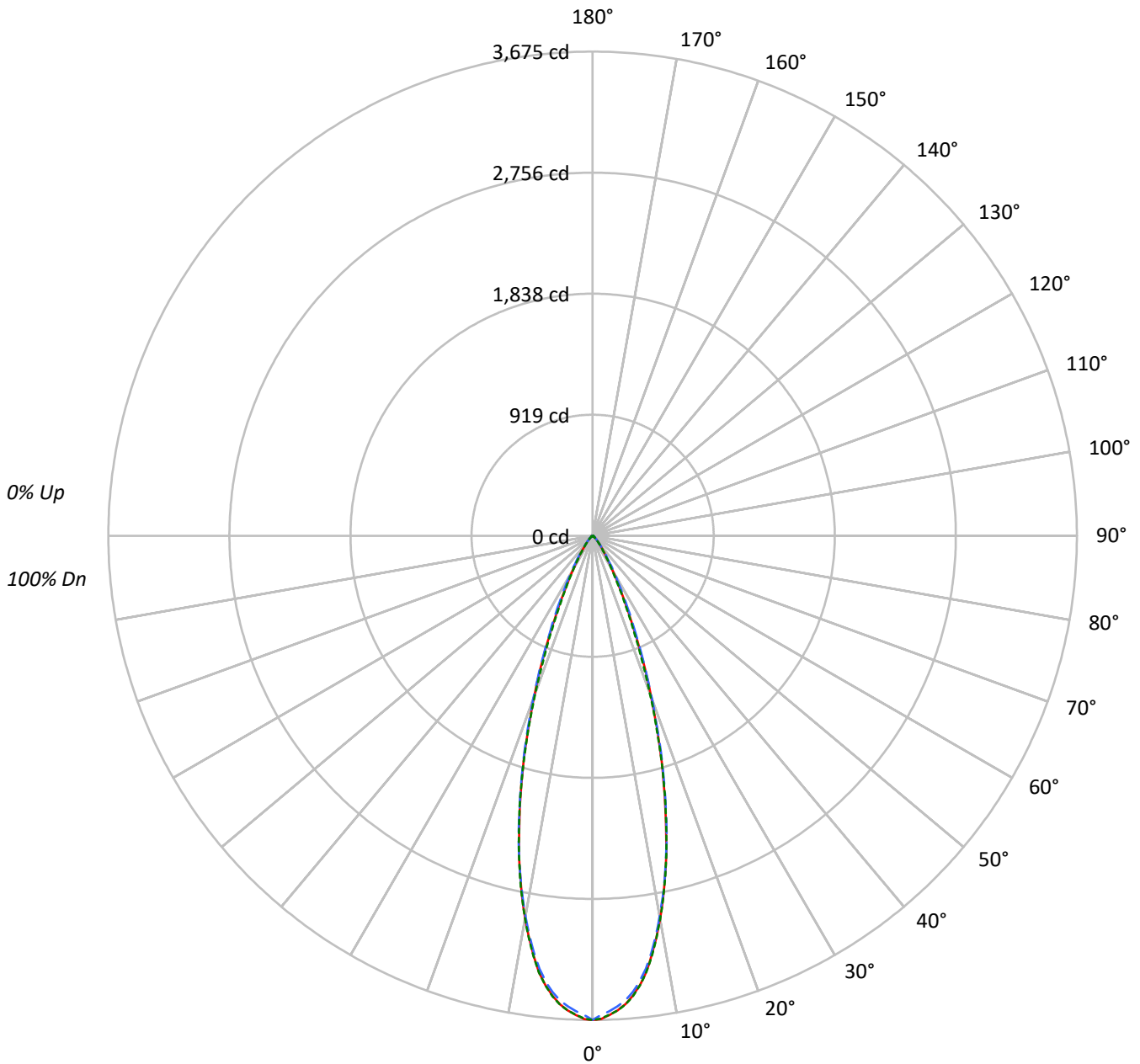
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1813105	1813105	1813105
5°	1735145	1722170	1737819
10°	1478270	1469002	1479823
15°	1089565	1096665	1093141
20°	680169	692770	665206
25°	351333	376972	333695
30°	168456	193066	160537
35°	86970	96245	81369
40°	48754	51201	46242
45°	29653	29653	28537
50°	15427	18958	15427
55°	7999	12644	8602
60°	9177	9177	9177
65°	9923	9923	9923
70°	12261	11107	12261
75°	11818	11818	11818
80°	11081	11081	11081
85°	8491	8491	8491



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.1	23.0
10°-20°	580.6	42.2
20°-30°	314.8	22.9
30°-40°	101.1	7.3
40°-50°	34.4	2.5
50°-60°	12.1	0.9
60°-70°	8.8	0.6
70°-80°	6.4	0.5
80°-90°	1.8	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°	1211.5	88.0
0°-40°	1312.6	95.4
0°-60°	1359.1	98.8
0°-90°	1376.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1376.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3675	3675	3675	3675	3675	
5°	3504	3482	3477	3512	3509	317
15°	2133	2151	2147	2157	2140	578
25°	645	675	692	645	613	309
35°	144	151	160	145	135	97
45°	42	43	42	42	41	34
55°	9	12	15	12	10	10
65°	8	9	8	9	8	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°	3675.0	3675.0	3675.0	3675.0	3675.0
1°	3668.9	3642.6	3638.7	3672.7	3665.0
2°	3639.5	3614.8	3610.9	3644.9	3638.0
3°	3607.1	3584.7	3577.0	3612.5	3607.9
4°	3563.9	3543.0	3536.1	3571.6	3567.7
5°	3503.6	3482.0	3477.4	3512.1	3509.0
6°	3429.5	3411.8	3403.3	3438.0	3431.8
7°	3336.9	3320.7	3311.4	3336.9	3340.0
8°	3216.4	3208.7	3197.9	3223.4	3223.4
9°	3088.3	3081.3	3069.7	3092.9	3092.9
10°	2950.8	2946.2	2932.3	2953.9	2953.9
11°	2800.3	2798.0	2787.9	2805.7	2805.7
12°	2642.0	2647.4	2638.1	2653.6	2648.2
13°	2483.7	2481.4	2482.2	2493.8	2485.3
14°	2304.6	2318.5	2320.8	2327.8	2314.7
15°	2133.2	2151.0	2147.1	2157.2	2140.2
16°	1958.0	1978.0	1977.3	1979.6	1963.4
17°	1794.3	1805.9	1806.6	1804.3	1784.2
18°	1619.8	1636.0	1636.0	1632.1	1608.2
19°	1449.2	1461.5	1470.0	1461.5	1433.7
20°	1295.5	1304.0	1319.5	1297.8	1267.0
21°	1148.1	1155.8	1168.9	1143.4	1109.5
22°	1006.8	1016.8	1029.2	999.8	964.3
23°	874.7	897.9	902.5	862.4	832.3
24°	753.5	779.8	787.5	746.6	714.9
25°	645.4	674.8	692.5	644.7	613.0
26°	552.0	580.6	602.2	554.3	524.2
27°	470.2	500.3	522.7	477.9	449.3
28°	399.9	429.3	452.4	410.7	383.7
29°	347.4	364.4	387.6	352.8	328.1
30°	295.7	314.2	338.9	303.4	281.8
32.5°	203.1	213.1	232.4	210.8	193.8
35°	144.4	150.6	159.8	145.1	135.1
37.5°	102.7	105.8	111.2	102.7	97.3
40°	75.7	77.2	79.5	74.9	71.8
42.5°	56.4	57.1	57.1	55.6	54.0
45°	42.5	43.2	42.5	42.5	40.9
47.5°	30.9	33.2	32.4	32.4	30.1
50°	20.1	24.7	24.7	23.9	20.1
52.5°	12.4	17.0	19.3	17.0	13.1
55°	9.3	11.6	14.7	11.6	10.0
57.5°	9.3	9.3	10.8	9.3	9.3
60°	9.3	9.3	9.3	9.3	9.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	8.5	8.5	8.5	8.5	8.5
70°	8.5	8.5	7.7	8.5	8.5
72.5°	7.7	7.7	6.9	7.7	6.9
75°	6.2	6.2	6.2	6.2	6.2
77.5°	4.6	4.6	4.6	4.6	4.6
80°	3.9	3.9	3.9	3.9	3.9
82.5°	2.3	2.3	2.3	3.1	2.3
85°	1.5	1.5	1.5	1.5	1.5
87.5°	0.8	0.8	0.8	0.8	0.8
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	9.3	9.3	9.3	9.3	9.3
65°	8.5	9.3	8.5	9.3	8.5



(END OF REPORT)