

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: P283752

Luminaire Tested: **LDA2B209027D010 EU2B20FL409027 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283752
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: LDA2B209027D010 EU2B20FL409027 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: 1238.7 lumens
Efficiency: N/A
Efficacy: 60.1 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

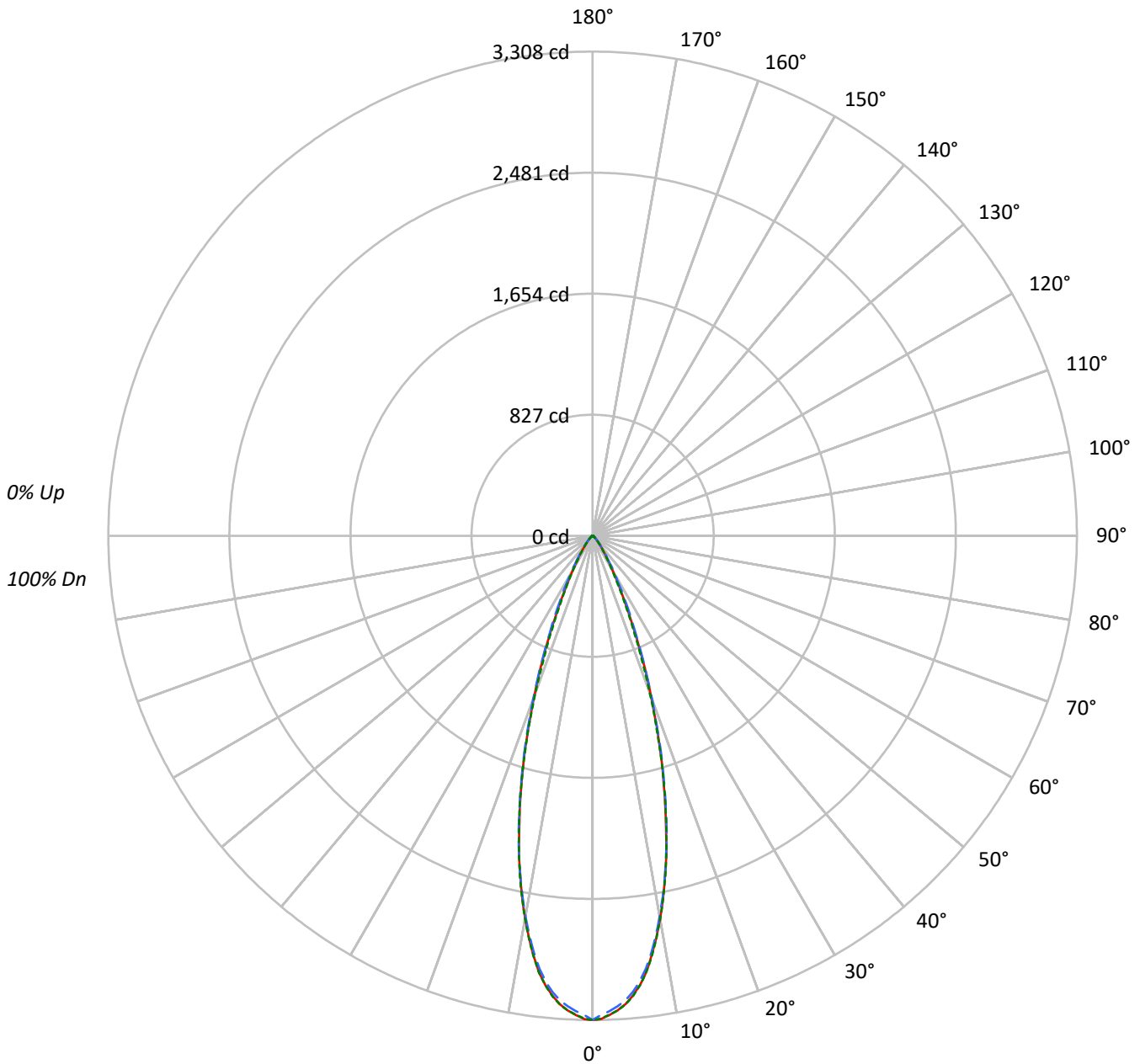
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1632090	1632090	1632090
5°	1561908	1550220	1564335
10°	1330684	1322317	1332086
15°	980772	987157	983990
20°	612284	623572	598791
25°	316276	339357	300380
30°	151650	173811	144529
35°	78297	86669	73238
40°	43859	46113	41605
45°	26653	26653	25676
50°	13892	17039	13892
55°	7139	11354	7741
60°	8190	8190	8190
65°	8872	8872	8872
70°	10963	9953	10963
75°	10675	10675	10675
80°	9944	9944	9944
85°	7925	7925	7925



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.5	23.0
10°-20°	522.7	42.2
20°-30°	283.4	22.9
30°-40°	91.0	7.3
40°-50°	31.0	2.5
50°-60°	10.8	0.9
60°-70°	7.9	0.6
70°-80°	5.8	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°	1090.6	88.0
0°-40°	1181.5	95.4
0°-60°	1223.4	98.8
0°-90°	1238.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1238.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3308	3308	3308	3308	3308	
5°	3154	3134	3130	3162	3159	285
15°	1920	1936	1933	1942	1926	521
25°	581	607	623	580	552	278
35°	130	136	144	131	122	88
45°	38	39	38	38	37	30
55°	8	10	13	10	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°	3308.1	3308.1	3308.1	3308.1	3308.1
1°	3302.5	3278.9	3275.4	3306.0	3299.1
2°	3276.1	3253.9	3250.4	3281.0	3274.7
3°	3246.9	3226.8	3219.8	3251.8	3247.6
4°	3208.0	3189.3	3183.0	3215.0	3211.5
5°	3153.8	3134.4	3130.2	3161.5	3158.7
6°	3087.1	3071.1	3063.5	3094.7	3089.2
7°	3003.7	2989.1	2980.8	3003.7	3006.5
8°	2895.3	2888.3	2878.6	2901.5	2901.5
9°	2779.9	2773.7	2763.2	2784.1	2784.1
10°	2656.2	2652.0	2639.5	2659.0	2659.0
11°	2520.7	2518.6	2509.6	2525.6	2525.6
12°	2378.2	2383.1	2374.7	2388.6	2383.8
13°	2235.8	2233.7	2234.4	2244.8	2237.1
14°	2074.5	2087.0	2089.1	2095.4	2083.5
15°	1920.2	1936.2	1932.7	1941.8	1926.5
16°	1762.5	1780.5	1779.8	1781.9	1767.3
17°	1615.1	1625.6	1626.3	1624.2	1606.1
18°	1458.1	1472.7	1472.7	1469.2	1447.6
19°	1304.5	1315.6	1323.2	1315.6	1290.6
20°	1166.2	1173.8	1187.7	1168.3	1140.5
21°	1033.4	1040.4	1052.2	1029.3	998.7
22°	906.3	915.3	926.4	900.0	868.0
23°	787.4	808.3	812.4	776.3	749.2
24°	678.3	701.9	708.9	672.0	643.6
25°	581.0	607.4	623.4	580.3	551.8
26°	496.9	522.6	542.1	499.0	471.9
27°	423.2	450.3	470.5	430.2	404.5
28°	360.0	386.4	407.3	369.7	345.4
29°	312.7	328.0	348.9	317.6	295.4
30°	266.2	282.9	305.1	273.1	253.7
32.5°	182.8	191.8	209.2	189.7	174.4
35°	130.0	135.5	143.9	130.7	121.6
37.5°	92.4	95.2	100.1	92.4	87.6
40°	68.1	69.5	71.6	67.4	64.6
42.5°	50.7	51.4	51.4	50.0	48.6
45°	38.2	38.9	38.2	38.2	36.8
47.5°	27.8	29.9	29.2	29.2	27.1
50°	18.1	22.2	22.2	21.5	18.1
52.5°	11.1	15.3	17.4	15.3	11.8
55°	8.3	10.4	13.2	10.4	9.0
57.5°	8.3	8.3	9.7	8.3	8.3
60°	8.3	8.3	8.3	8.3	8.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	7.6	7.6	7.6	7.6	7.6
70°	7.6	7.6	6.9	7.6	7.6
72.5°	6.9	6.9	6.3	6.9	6.3
75°	5.6	5.6	5.6	5.6	5.6
77.5°	4.2	4.2	4.2	4.2	4.2
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°	8.3	8.3	8.3	8.3	8.3
65°	7.6	8.3	7.6	8.3	7.6



(END OF REPORT)