

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: P282404

Luminaire Tested: **LDA2B209027D010 EU2B20NFL259027 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282404
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-26)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B209027D010 EU2B20NFL259027 2LBAPINSQ1MW
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ PinHole, MW
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1419.9 lumens
Efficiency: N/A
Efficacy: 68.9 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.3 / 0.32
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

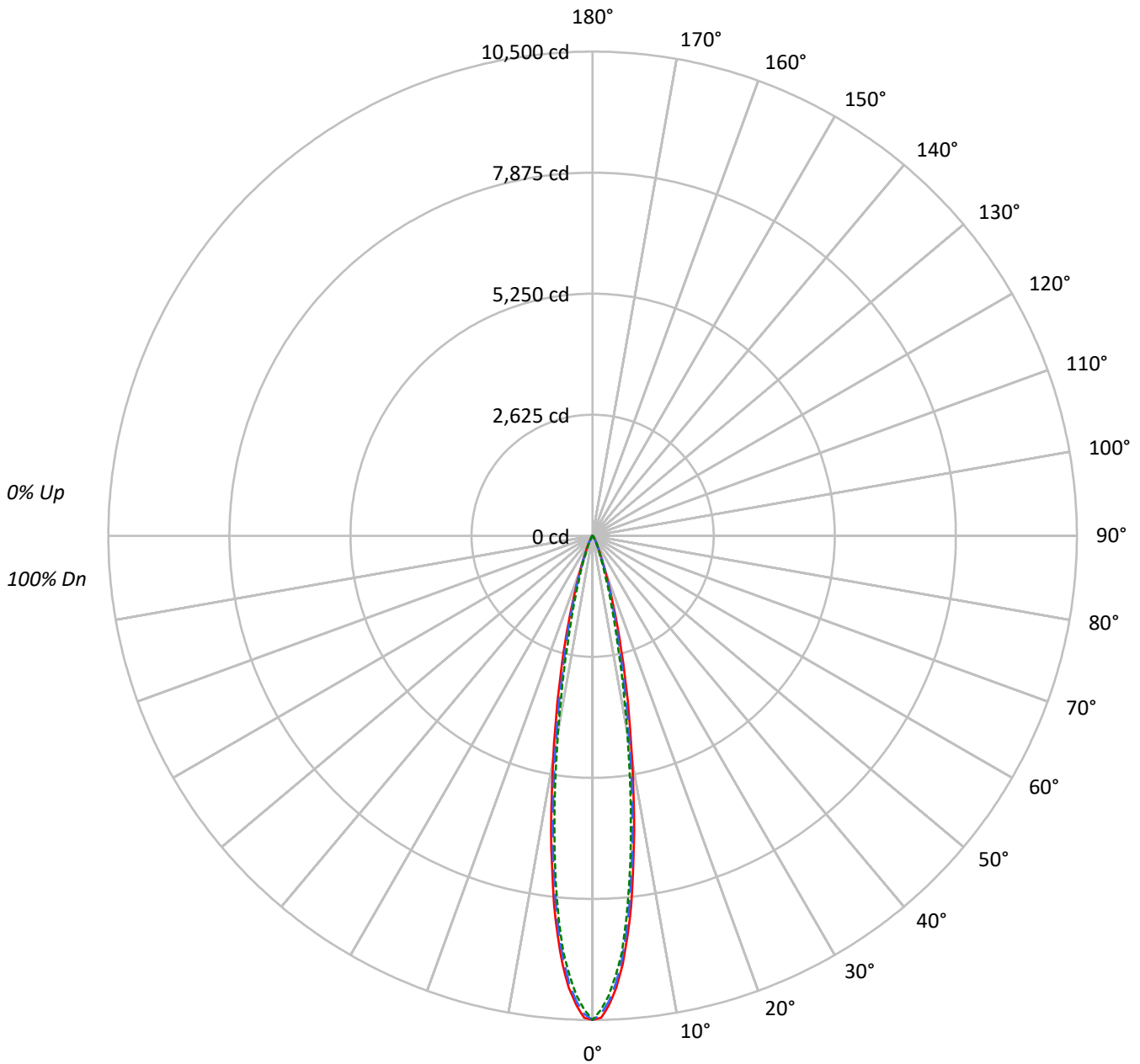
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				100															
1	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97				97															
2	112	109	106	104	110	107	105	103	104	102	100	101	100	98	99	97	96	95				95															
3	109	105	101	99	107	103	100	98	101	99	97	99	97	95	97	95	94	92				92															
4	106	101	98	95	105	100	97	94	98	96	93	96	94	92	95	93	91	90				90															
5	103	98	94	92	102	97	94	91	96	93	91	94	92	90	93	91	89	88				88															
6	101	95	92	89	100	95	91	89	93	90	88	92	90	88	91	89	87	86				86															
7	99	93	89	87	98	92	89	86	91	88	86	90	88	86	89	87	85	84				84															
8	96	91	87	85	96	90	87	84	89	86	84	88	86	84	88	85	83	83				83															
9	94	89	85	83	94	88	85	82	87	84	82	87	84	82	86	84	82	81				81															
10	93	87	83	81	92	86	83	81	86	83	81	85	82	80	85	82	80	79				79															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5180151	5180151	5180151
5°	4310426	4231434	4146004
10°	2468994	2316848	2162298
15°	1098146	975307	817276
20°	398389	374553	296744
25°	152966	142841	122972
30°	65970	61355	54462
35°	31198	31198	25838
40°	15650	16165	13010
45°	9070	8442	7884
50°	6217	5603	5603
55°	4903	3441	4215
60°	3947	2368	3158
65°	2802	1868	2802
70°	2308	1154	2308
75°	1525	1525	1525
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	682.9	48.1
10°-20°	552.6	38.9
20°-30°	133.3	9.4
30°-40°	34.0	2.4
40°-50°	10.1	0.7
50°-60°	4.3	0.3
60°-70°	2.1	0.1
70°-80°	0.7	0.0
80°-90°	0.0	0.0
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°	1368.8	96.4
0°-40°	1402.8	98.8
0°-60°	1417.2	99.8
0°-90°	1419.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1419.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10500	10500	10500	10500	10500	
5°	8704	8623	8544	8470	8372	704
15°	2150	2099	1910	1720	1600	613
25°	281	283	262	238	226	145
35°	52	53	52	47	43	36
45°	13	13	12	11	11	11
55°	6	5	4	4	5	5
65°	2	2	2	2	2	3
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10499.7	10499.7	10499.7	10499.7	10499.7
1°	10452.8	10379.9	10371.0	10416.3	10282.7
2°	10185.5	10133.7	10103.7	10130.5	9979.0
3°	9818.7	9768.5	9714.2	9715.0	9545.8
4°	9319.1	9279.4	9187.9	9160.3	9062.4
5°	8703.6	8623.4	8544.1	8469.6	8371.6
6°	8023.4	7919.7	7806.4	7695.4	7595.0
7°	7223.3	7154.5	7004.7	6853.2	6768.2
8°	6471.0	6360.1	6185.2	5995.7	5923.6
9°	5662.0	5582.7	5381.9	5161.6	5089.5
10°	4928.4	4845.8	4624.7	4379.3	4316.2
11°	4240.1	4162.3	3932.3	3674.8	3607.6
12°	3657.8	3547.7	3283.7	3060.2	2994.6
13°	3078.0	3002.7	2752.5	2531.4	2404.3
14°	2584.8	2522.5	2295.8	2101.4	1967.0
15°	2150.0	2099.0	1909.5	1720.0	1600.1
16°	1763.7	1732.1	1582.3	1399.3	1301.3
17°	1430.9	1401.7	1306.2	1137.8	1055.2
18°	1155.6	1151.5	1072.2	926.4	852.7
19°	950.7	949.1	876.2	753.9	693.2
20°	758.8	769.3	713.4	606.5	565.2
21°	618.7	624.3	579.8	498.8	461.6
22°	503.7	507.7	478.6	412.2	391.9
23°	413.0	415.4	391.1	341.7	323.9
24°	340.1	341.7	319.9	285.0	269.7
25°	281.0	282.6	262.4	238.1	225.9
26°	233.2	234.8	217.0	200.0	187.9
27°	193.5	196.8	179.0	168.4	155.5
28°	165.2	166.0	149.8	143.3	131.2
29°	135.2	140.1	126.3	120.7	111.8
30°	115.8	118.2	107.7	103.7	95.6
32.5°	76.9	78.5	73.7	70.5	64.0
35°	51.8	52.6	51.8	47.0	42.9
37.5°	35.6	35.6	36.4	30.8	29.2
40°	24.3	24.3	25.1	21.1	20.2
42.5°	17.8	17.8	17.0	14.6	14.6
45°	13.0	13.0	12.1	11.3	11.3
47.5°	10.5	9.7	8.9	8.9	8.9
50°	8.1	8.1	7.3	6.5	7.3
52.5°	6.5	6.5	5.7	5.7	5.7
55°	5.7	4.9	4.0	4.0	4.9
57.5°	4.0	4.0	3.2	3.2	4.0
60°	4.0	3.2	2.4	3.2	3.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	2.4	1.6	1.6	1.6	1.6
70°	1.6	1.6	0.8	0.8	1.6
72.5°	0.8	0.8	0.8	0.8	0.8
75°	0.8	0.8	0.8	0.8	0.8
77.5°	0.8	0.8	0.0	0.0	0.8
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	3.2	2.4	2.4	2.4	2.4
65°	2.4	2.4	1.6	1.6	2.4



(END OF REPORT)