

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: P282639

Luminaire Tested: **LDA2B059027D010 EU2B05NFL259027 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282639
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: LDA2B059027D010 EU2B05NFL259027 2LBALPINSQ1MB
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC
AND 2in Adj SQ Pinhole w-lens, MB
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 513.4 lumens
Efficiency: N/A
Efficacy: 73.3 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

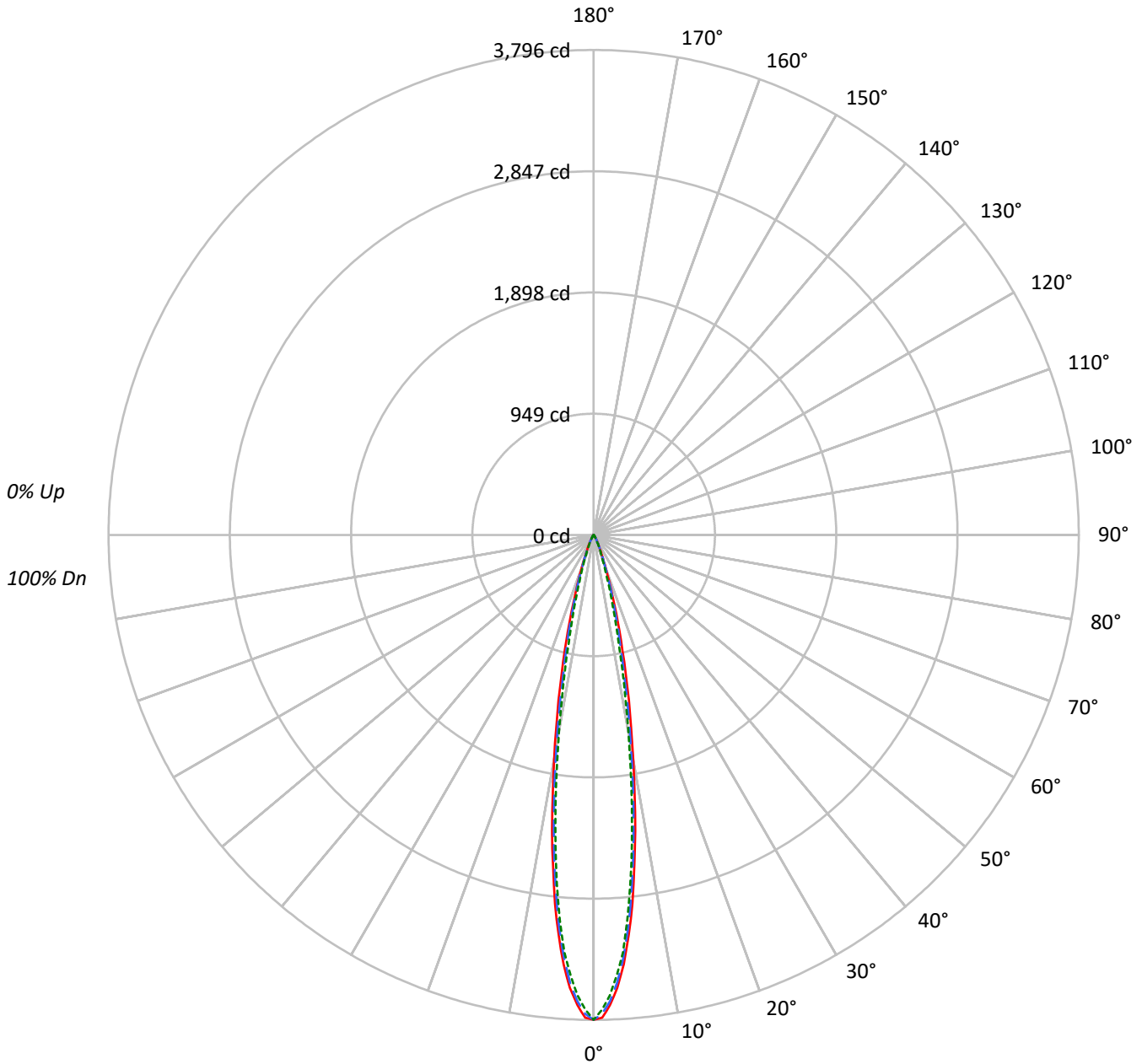
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1872752	1872752	1872752
5°	1558342	1529766	1498863
10°	892583	837576	781718
15°	397018	352582	295478
20°	144014	135404	107263
25°	55307	51660	44475
30°	23870	22161	19654
35°	11263	11263	9335
40°	5668	5861	4701
45°	3279	3070	2861
50°	2226	1996	1996
55°	1720	1290	1548
60°	1480	888	1184
65°	1051	700	1051
70°	865	433	865
75°	572	572	572
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.9	48.1
10°-20°	199.8	38.9
20°-30°	48.2	9.4
30°-40°	12.3	2.4
40°-50°	3.7	0.7
50°-60°	1.6	0.3
60°-70°	0.8	0.2
70°-80°	0.3	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°	494.9	96.4
0°-40°	507.1	98.8
0°-60°	512.3	99.8
0°-90°	513.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	513.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3796	3796	3796	3796	3796	
5°	3147	3118	3089	3062	3026	254
15°	777	759	690	622	578	222
25°	102	102	95	86	82	52
35°	19	19	19	17	16	13
45°	5	5	4	4	4	4
55°	2	2	2	2	2	2
65°	1	1	1	1	1	1
75°	0	0	0	0	0	0
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°	3795.9	3795.9	3795.9	3795.9	3795.9
1°	3778.9	3752.6	3749.4	3765.8	3717.4
2°	3682.3	3663.6	3652.7	3662.4	3607.7
3°	3549.7	3531.5	3511.9	3512.2	3451.0
4°	3369.1	3354.7	3321.6	3311.7	3276.3
5°	3146.6	3117.6	3088.9	3062.0	3026.5
6°	2900.7	2863.2	2822.2	2782.1	2745.8
7°	2611.4	2586.5	2532.4	2477.6	2446.9
8°	2339.4	2299.3	2236.1	2167.6	2141.5
9°	2047.0	2018.3	1945.7	1866.0	1840.0
10°	1781.7	1751.9	1671.9	1583.2	1560.4
11°	1532.9	1504.8	1421.6	1328.5	1304.2
12°	1322.4	1282.6	1187.1	1106.3	1082.6
13°	1112.8	1085.5	995.1	915.2	869.2
14°	934.5	911.9	830.0	759.7	711.1
15°	777.3	758.8	690.3	621.8	578.5
16°	637.6	626.2	572.1	505.9	470.5
17°	517.3	506.8	472.2	411.3	381.5
18°	417.8	416.3	387.6	334.9	308.3
19°	343.7	343.1	316.8	272.6	250.6
20°	274.3	278.1	257.9	219.3	204.3
21°	223.7	225.7	209.6	180.3	166.9
22°	182.1	183.6	173.0	149.0	141.7
23°	149.3	150.2	141.4	123.5	117.1
24°	123.0	123.5	115.6	103.1	97.5
25°	101.6	102.2	94.9	86.1	81.7
26°	84.3	84.9	78.5	72.3	67.9
27°	70.0	71.1	64.7	60.9	56.2
28°	59.7	60.0	54.2	51.8	47.4
29°	48.9	50.6	45.7	43.6	40.4
30°	41.9	42.7	38.9	37.5	34.5
32.5°	27.8	28.4	26.6	25.5	23.1
35°	18.7	19.0	18.7	17.0	15.5
37.5°	12.9	12.9	13.2	11.1	10.5
40°	8.8	8.8	9.1	7.6	7.3
42.5°	6.4	6.4	6.1	5.3	5.3
45°	4.7	4.7	4.4	4.1	4.1
47.5°	3.8	3.5	3.2	3.2	3.2
50°	2.9	2.9	2.6	2.3	2.6
52.5°	2.3	2.3	2.0	2.0	2.0
55°	2.0	1.8	1.5	1.5	1.8
57.5°	1.5	1.5	1.2	1.2	1.5
60°	1.5	1.2	0.9	1.2	1.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	0.9	0.6	0.6	0.6	0.6
70°	0.6	0.6	0.3	0.3	0.6
72.5°	0.3	0.3	0.3	0.3	0.3
75°	0.3	0.3	0.3	0.3	0.3
77.5°	0.3	0.3	0.0	0.0	0.3
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°	1.2	0.9	0.9	0.9	0.9
65°	0.9	0.9	0.6	0.6	0.9



(END OF REPORT)