

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: P282183

Luminaire Tested: **LDA2B059727D010 EU2B05NFL259727 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282183
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: LDA2B059727D010 EU2B05NFL259727 2LBAPINSQ1MB
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ PinHole, MB
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 502.6 lumens
Efficiency: N/A
Efficacy: 71.8 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

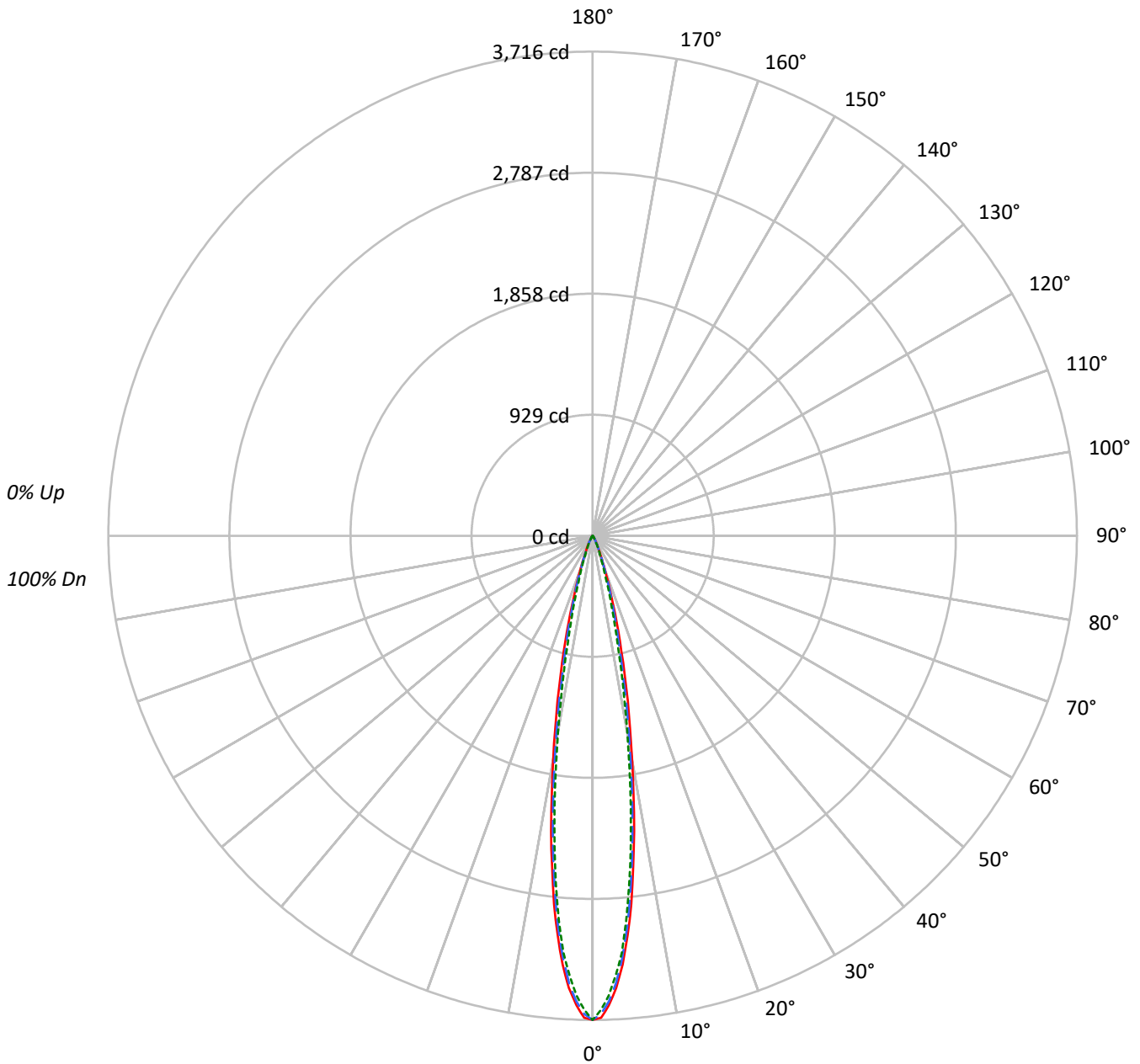
Input Watts (W): 7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1833480	1833480	1833480
5°	1525656	1497674	1467464
10°	873897	820042	765336
15°	388693	345227	289298
20°	141022	132569	105057
25°	54164	50571	43549
30°	23357	21705	19255
35°	11022	11022	9155
40°	5539	5732	4637
45°	3210	3000	2791
50°	2226	1996	1996
55°	1720	1204	1462
60°	1381	888	1085
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°	241.7	48.1
10°-20°	195.6	38.9
20°-30°	47.2	9.4
30°-40°	12.0	2.4
40°-50°	3.6	0.7
50°-60°	1.5	0.3
60°-70°	0.8	0.2
70°-80°	0.3	0.1
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°	484.5	96.4
0°-40°	496.5	98.8
0°-60°	501.6	99.8
0°-90°	502.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	502.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3716	3716	3716	3716	3716	
5°	3081	3052	3024	2998	2963	249
15°	761	743	676	609	566	217
25°	100	100	93	84	80	51
35°	18	19	18	17	15	13
45°	5	5	4	4	4	4
55°	2	2	1	1	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°	3716.3	3716.3	3716.3	3716.3	3716.3
1°	3699.7	3673.9	3670.8	3686.8	3639.5
2°	3605.1	3586.8	3576.2	3585.6	3532.0
3°	3475.3	3457.5	3438.3	3438.6	3378.7
4°	3298.4	3284.4	3252.0	3242.3	3207.6
5°	3080.6	3052.2	3024.1	2997.8	2963.1
6°	2839.8	2803.2	2763.0	2723.8	2688.2
7°	2556.7	2532.3	2479.3	2425.7	2395.6
8°	2290.4	2251.1	2189.2	2122.1	2096.6
9°	2004.1	1976.0	1904.9	1826.9	1801.4
10°	1744.4	1715.1	1636.9	1550.0	1527.7
11°	1500.7	1473.2	1391.8	1300.7	1276.9
12°	1294.7	1255.7	1162.3	1083.1	1059.9
13°	1089.4	1062.8	974.2	896.0	851.0
14°	914.9	892.8	812.6	743.8	696.2
15°	761.0	742.9	675.9	608.8	566.4
16°	624.3	613.1	560.1	495.3	460.6
17°	506.5	496.1	462.3	402.7	373.5
18°	409.0	407.6	379.5	327.9	301.8
19°	336.5	335.9	310.1	266.8	245.3
20°	268.6	272.3	252.5	214.7	200.1
21°	219.0	221.0	205.2	176.6	163.4
22°	178.3	179.7	169.4	145.9	138.7
23°	146.2	147.0	138.4	121.0	114.6
24°	120.4	121.0	113.2	100.9	95.4
25°	99.5	100.0	92.9	84.3	80.0
26°	82.5	83.1	76.8	70.8	66.5
27°	68.5	69.6	63.3	59.6	55.0
28°	58.5	58.8	53.0	50.7	46.4
29°	47.9	49.6	44.7	42.7	39.6
30°	41.0	41.8	38.1	36.7	33.8
32.5°	27.2	27.8	26.1	24.9	22.6
35°	18.3	18.6	18.3	16.6	15.2
37.5°	12.6	12.6	12.9	10.9	10.3
40°	8.6	8.6	8.9	7.5	7.2
42.5°	6.3	6.3	6.0	5.2	5.2
45°	4.6	4.6	4.3	4.0	4.0
47.5°	3.7	3.4	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	1.7	1.4	1.4	1.7
57.5°	1.4	1.4	1.1	1.1	1.4
60°	1.4	1.1	0.9	1.1	1.1



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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°	1.1	0.9	0.9	0.9	0.9
65°	0.9	0.9	0.6	0.6	0.9



(END OF REPORT)