

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: P282116

Luminaire Tested: **LDA2B058027D010 EU2B05NFL258027 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282116
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: LDA2B058027D010 EU2B05NFL258027 2LBAPINSQ1MW
Description: PORTFOLIO 2IN ADJ 500 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: 716.5 lumens
Efficiency: N/A
Efficacy: 102.4 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

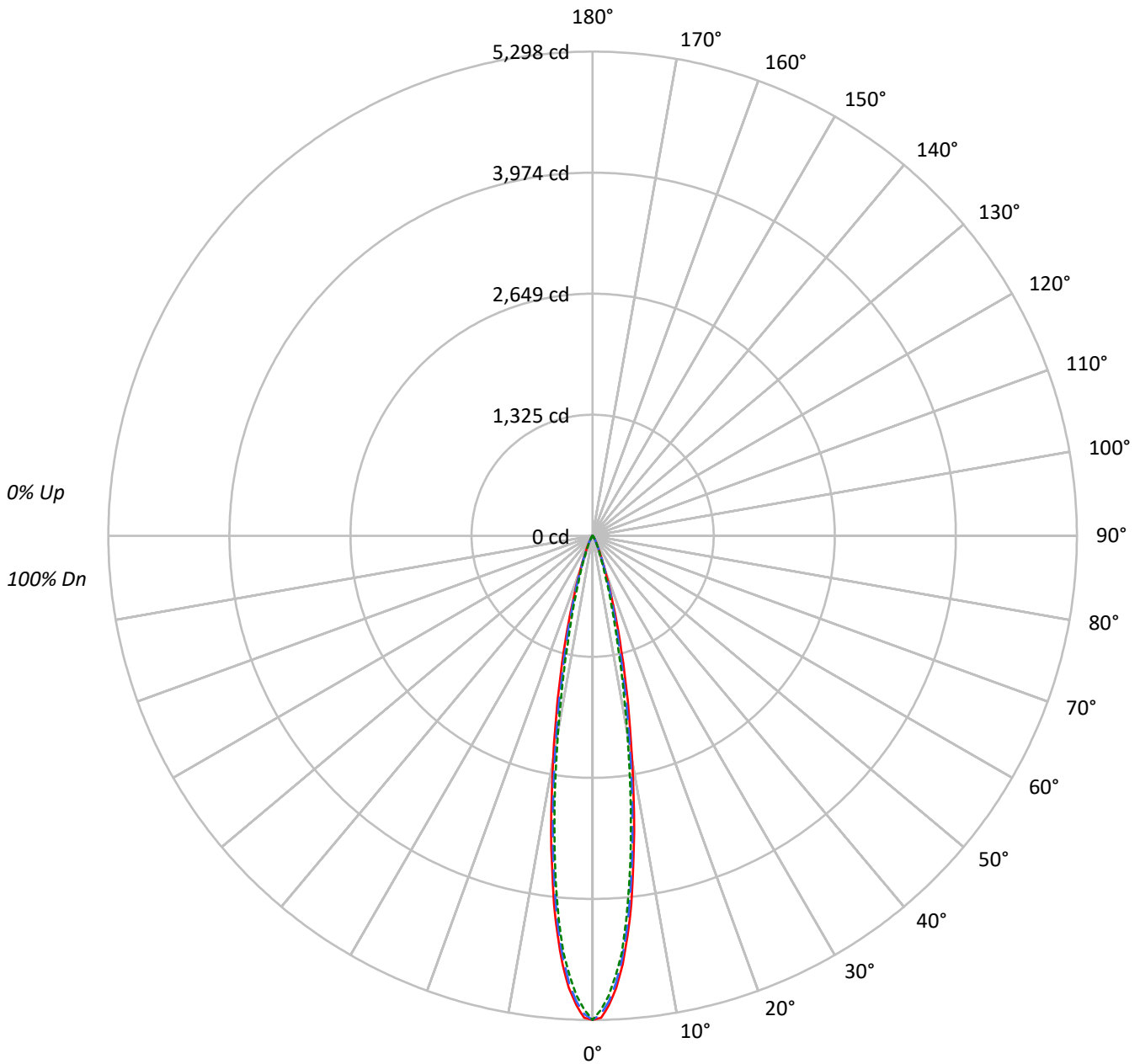
Input Watts (W): 7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	100	99	97	97	100													
1	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97	97	96	95	95	94	92													
2	112	109	106	104	110	107	105	103	104	102	100	101	100	98	99	97	96	95	94	93	92	91	90	88													
3	109	105	101	99	107	103	100	98	101	99	97	99	97	95	97	95	94	93	92	91	90	89	88	86													
4	106	101	98	95	105	100	97	94	98	96	93	96	94	92	95	93	91	89	88	87	86	85	84	83													
5	103	98	94	92	102	97	94	91	96	93	91	94	92	90	93	91	89	88	87	86	85	84	83	81													
6	101	95	92	89	100	95	91	89	93	90	88	92	90	88	91	89	87	86	85	84	83	82	81	79													
7	99	93	89	87	98	92	89	86	91	88	86	90	88	86	89	87	85	84	83	82	81	80	79	77													
8	96	91	87	85	96	90	87	84	89	86	84	88	86	84	88	85	83	82	81	80	79	78	77	75													
9	94	89	85	83	94	88	85	82	87	84	82	87	84	82	86	84	82	81	80	79	78	77	76	74													
10	93	87	83	81	92	86	83	81	86	83	81	85	82	80	85	82	80	79	78	77	76	75	74	72													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2613831	2613831	2613831
5°	2174973	2135106	2092020
10°	1245819	1169020	1091068
15°	554079	492123	412392
20°	201032	189009	149737
25°	77191	72074	62058
30°	33270	30934	27459
35°	15780	15780	13070
40°	7922	8179	6569
45°	4535	4256	3977
50°	3147	2840	2840
55°	2494	1720	2150
60°	1973	1184	1579
65°	1401	934	1401
70°	1154	577	1154
75°	762	762	762
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.6	48.1
10°-20°	278.8	38.9
20°-30°	67.2	9.4
30°-40°	17.1	2.4
40°-50°	5.1	0.7
50°-60°	2.2	0.3
60°-70°	1.0	0.1
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°	690.7	96.4
0°-40°	707.8	98.8
0°-60°	715.1	99.8
0°-90°	716.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	716.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5298	5298	5298	5298	5298	
5°	4392	4351	4311	4274	4224	355
15°	1085	1059	964	868	807	309
25°	142	143	132	120	114	73
35°	26	27	26	24	22	18
45°	6	6	6	6	6	6
55°	3	2	2	2	2	3
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°	5298.0	5298.0	5298.0	5298.0	5298.0
1°	5274.3	5237.5	5233.0	5255.9	5188.5
2°	5139.4	5113.3	5098.2	5111.7	5035.2
3°	4954.3	4929.0	4901.6	4902.0	4816.6
4°	4702.2	4682.2	4636.0	4622.1	4572.7
5°	4391.7	4351.2	4311.2	4273.6	4224.2
6°	4048.5	3996.2	3939.0	3883.0	3832.3
7°	3644.8	3610.0	3534.4	3458.0	3415.1
8°	3265.2	3209.2	3120.9	3025.3	2989.0
9°	2857.0	2816.9	2715.6	2604.5	2568.1
10°	2486.8	2445.1	2333.5	2209.7	2177.9
11°	2139.5	2100.2	1984.2	1854.3	1820.3
12°	1845.7	1790.1	1656.9	1544.1	1511.0
13°	1553.1	1515.1	1388.9	1277.3	1213.2
14°	1304.3	1272.8	1158.4	1060.3	992.5
15°	1084.8	1059.1	963.5	867.9	807.4
16°	889.9	874.0	798.4	706.1	656.6
17°	722.0	707.3	659.1	574.1	532.4
18°	583.1	581.0	541.0	467.4	430.3
19°	479.7	478.9	442.1	380.4	349.8
20°	382.9	388.2	360.0	306.0	285.2
21°	312.2	315.0	292.6	251.7	232.9
22°	254.2	256.2	241.5	208.0	197.8
23°	208.4	209.6	197.4	172.4	163.4
24°	171.6	172.4	161.4	143.8	136.1
25°	141.8	142.6	132.4	120.1	114.0
26°	117.7	118.5	109.5	100.9	94.8
27°	97.7	99.3	90.3	85.0	78.5
28°	83.4	83.8	75.6	72.3	66.2
29°	68.2	70.7	63.7	60.9	56.4
30°	58.4	59.7	54.3	52.3	48.2
32.5°	38.8	39.6	37.2	35.5	32.3
35°	26.2	26.6	26.2	23.7	21.7
37.5°	18.0	18.0	18.4	15.5	14.7
40°	12.3	12.3	12.7	10.6	10.2
42.5°	9.0	9.0	8.6	7.4	7.4
45°	6.5	6.5	6.1	5.7	5.7
47.5°	5.3	4.9	4.5	4.5	4.5
50°	4.1	4.1	3.7	3.3	3.7
52.5°	3.3	3.3	2.9	2.9	2.9
55°	2.9	2.5	2.0	2.0	2.5
57.5°	2.0	2.0	1.6	1.6	2.0
60°	2.0	1.6	1.2	1.6	1.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1.2	0.8	0.8	0.8	0.8
70°	0.8	0.8	0.4	0.4	0.8
72.5°	0.4	0.4	0.4	0.4	0.4
75°	0.4	0.4	0.4	0.4	0.4
77.5°	0.4	0.4	0.0	0.0	0.4
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°	1.6	1.2	1.2	1.2	1.2
65°	1.2	1.2	0.8	0.8	1.2



(END OF REPORT)