

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: P282630

Luminaire Tested: **LDA2B058040D010 EU2B05NFL258040 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282630
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: LDA2B058040D010 EU2B05NFL258040 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: 698.9 lumens
Efficiency: N/A
Efficacy: 99.8 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

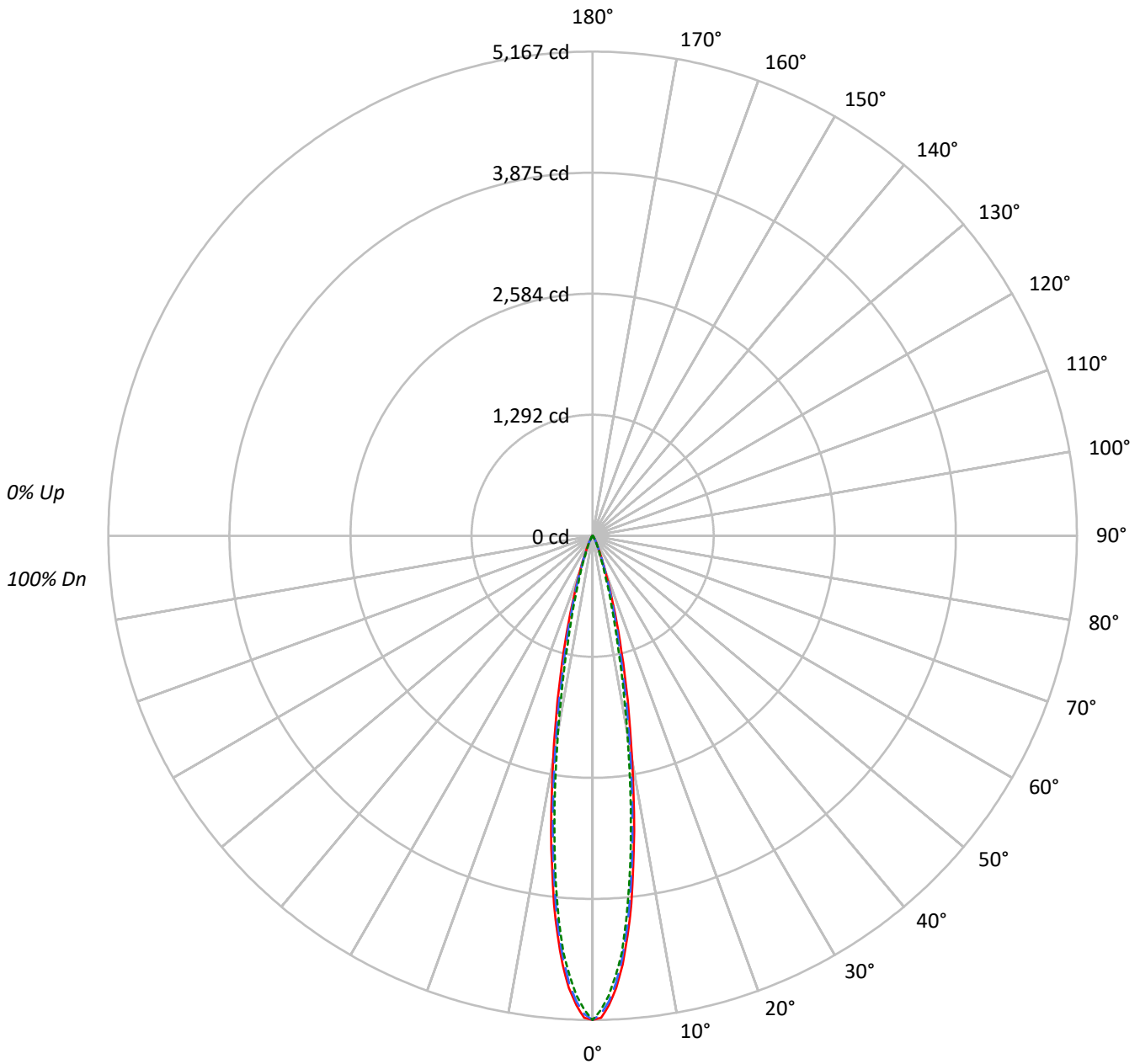
Input Watts (W): 7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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°	2549348	2549348	2549348
5°	2121338	2082412	2040415
10°	1215059	1140214	1064116
15°	540441	479967	402228
20°	196044	184336	146062
25°	75286	70277	60533
30°	32472	30193	26775
35°	15358	15358	12708
40°	7728	7986	6440
45°	4465	4186	3907
50°	3070	2763	2763
55°	2408	1720	2064
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°	336.1	48.1
10°-20°	272.0	38.9
20°-30°	65.6	9.4
30°-40°	16.7	2.4
40°-50°	5.0	0.7
50°-60°	2.1	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°	673.6	96.4
0°-40°	690.3	98.8
0°-60°	697.5	99.8
0°-90°	698.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	698.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5167	5167	5167	5167	5167	
5°	4283	4244	4205	4168	4120	346
15°	1058	1033	940	846	788	302
25°	138	139	129	117	111	71
35°	26	26	26	23	21	18
45°	6	6	6	6	6	5
55°	3	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°	5167.3	5167.3	5167.3	5167.3	5167.3
1°	5144.2	5108.3	5103.9	5126.2	5060.5
2°	5012.7	4987.2	4972.4	4985.6	4911.0
3°	4832.1	4807.4	4780.7	4781.1	4697.8
4°	4586.2	4566.7	4521.7	4508.1	4459.9
5°	4283.4	4243.9	4204.8	4168.2	4120.0
6°	3948.6	3897.6	3841.8	3787.2	3737.8
7°	3554.8	3521.0	3447.2	3372.7	3330.9
8°	3184.6	3130.0	3043.9	2950.7	2915.2
9°	2786.5	2747.4	2648.6	2540.2	2504.7
10°	2425.4	2384.8	2276.0	2155.2	2124.1
11°	2086.7	2048.4	1935.2	1808.5	1775.4
12°	1800.1	1745.9	1616.0	1506.0	1473.7
13°	1514.8	1477.7	1354.6	1245.8	1183.2
14°	1272.1	1241.4	1129.8	1034.2	968.0
15°	1058.1	1033.0	939.7	846.5	787.5
16°	868.0	852.4	778.7	688.7	640.4
17°	704.2	689.8	642.8	559.9	519.3
18°	568.7	566.7	527.6	455.9	419.6
19°	467.9	467.1	431.2	371.0	341.1
20°	373.4	378.6	351.1	298.5	278.2
21°	304.5	307.3	285.3	245.5	227.2
22°	247.9	249.9	235.5	202.8	192.9
23°	203.2	204.4	192.5	168.2	159.4
24°	167.4	168.2	157.4	140.3	132.7
25°	138.3	139.1	129.1	117.2	111.2
26°	114.8	115.6	106.8	98.4	92.5
27°	95.2	96.8	88.1	82.9	76.5
28°	81.3	81.7	73.7	70.5	64.6
29°	66.6	68.9	62.2	59.4	55.0
30°	57.0	58.2	53.0	51.0	47.0
32.5°	37.9	38.7	36.3	34.7	31.5
35°	25.5	25.9	25.5	23.1	21.1
37.5°	17.5	17.5	17.9	15.1	14.3
40°	12.0	12.0	12.4	10.4	10.0
42.5°	8.8	8.8	8.4	7.2	7.2
45°	6.4	6.4	6.0	5.6	5.6
47.5°	5.2	4.8	4.4	4.4	4.4
50°	4.0	4.0	3.6	3.2	3.6
52.5°	3.2	3.2	2.8	2.8	2.8
55°	2.8	2.4	2.0	2.0	2.4
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)