

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: P282124

Luminaire Tested: **LDA2B058030D010 EU2B05NFL258030 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282124
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: LDA2B058030D010 EU2B05NFL258030 2LBAPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC
AND 2in Adj SQ PinHole, MMS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 722.9 lumens
Efficiency: N/A
Efficacy: 103.3 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

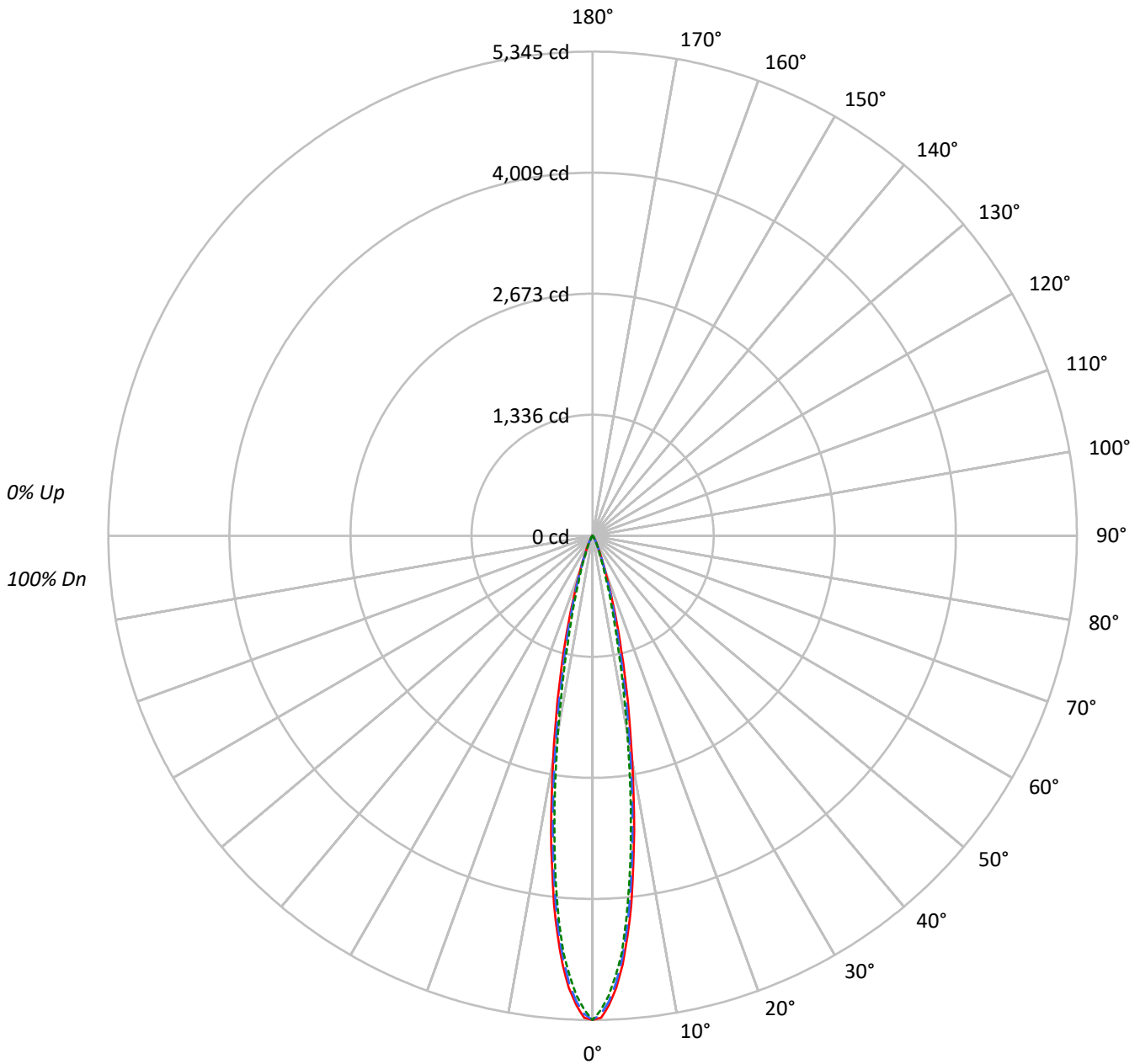
Input Watts (W): 7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2637167	2637167	2637167
5°	2194387	2154173	2110690
10°	1256940	1179490	1100787
15°	559033	496515	416070
20°	202817	190689	151102
25°	77899	72727	62602
30°	33611	31219	27687
35°	15900	15900	13130
40°	7986	8244	6634
45°	4605	4326	4047
50°	3147	2840	2840
55°	2494	1806	2150
60°	2072	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°	347.7	48.1
10°-20°	281.3	38.9
20°-30°	67.8	9.4
30°-40°	17.3	2.4
40°-50°	5.2	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°	696.8	96.4
0°-40°	714.1	98.8
0°-60°	721.5	99.8
0°-90°	722.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	722.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5345	5345	5345	5345	5345	
5°	4431	4390	4350	4312	4262	358
15°	1094	1069	972	876	815	312
25°	143	144	134	121	115	74
35°	26	27	26	24	22	18
45°	7	7	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°	5345.3	5345.3	5345.3	5345.3	5345.3
1°	5321.4	5284.3	5279.8	5302.8	5234.8
2°	5185.4	5159.0	5143.7	5157.3	5080.2
3°	4998.6	4973.0	4945.4	4945.8	4859.7
4°	4744.2	4724.0	4677.5	4663.4	4613.6
5°	4430.9	4390.1	4349.7	4311.8	4261.9
6°	4084.6	4031.9	3974.1	3917.7	3866.5
7°	3677.3	3642.3	3566.0	3488.9	3445.6
8°	3294.3	3237.9	3148.8	3052.3	3015.6
9°	2882.5	2842.1	2739.9	2627.7	2591.0
10°	2509.0	2466.9	2354.4	2229.5	2197.3
11°	2158.6	2119.0	2001.9	1870.8	1836.6
12°	1862.2	1806.1	1671.7	1557.9	1524.5
13°	1567.0	1528.6	1401.3	1288.7	1224.0
14°	1315.9	1284.2	1168.7	1069.8	1001.4
15°	1094.5	1068.6	972.1	875.6	814.6
16°	897.9	881.8	805.5	712.4	662.5
17°	728.5	713.6	665.0	579.2	537.2
18°	588.3	586.2	545.8	471.6	434.1
19°	484.0	483.2	446.1	383.8	352.9
20°	386.3	391.6	363.2	308.8	287.8
21°	315.0	317.8	295.2	253.9	235.0
22°	256.4	258.5	243.6	209.8	199.5
23°	210.3	211.5	199.1	174.0	164.9
24°	173.1	174.0	162.8	145.1	137.3
25°	143.1	143.9	133.6	121.2	115.0
26°	118.7	119.6	110.5	101.8	95.6
27°	98.5	100.2	91.1	85.7	79.2
28°	84.1	84.5	76.3	73.0	66.8
29°	68.8	71.3	64.3	61.4	56.9
30°	59.0	60.2	54.8	52.8	48.6
32.5°	39.2	40.0	37.5	35.9	32.6
35°	26.4	26.8	26.4	23.9	21.8
37.5°	18.1	18.1	18.6	15.7	14.8
40°	12.4	12.4	12.8	10.7	10.3
42.5°	9.1	9.1	8.7	7.4	7.4
45°	6.6	6.6	6.2	5.8	5.8
47.5°	5.4	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	2.1	2.1	2.5
57.5°	2.1	2.1	1.6	1.6	2.1
60°	2.1	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)