

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: P282673

Luminaire Tested: **LDA2B108040D010 EU2B10NFL258040 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282673
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: LDA2B108040D010 EU2B10NFL258040 2LBALPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MMS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 965.4 lumens
Efficiency: N/A
Efficacy: 96.5 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

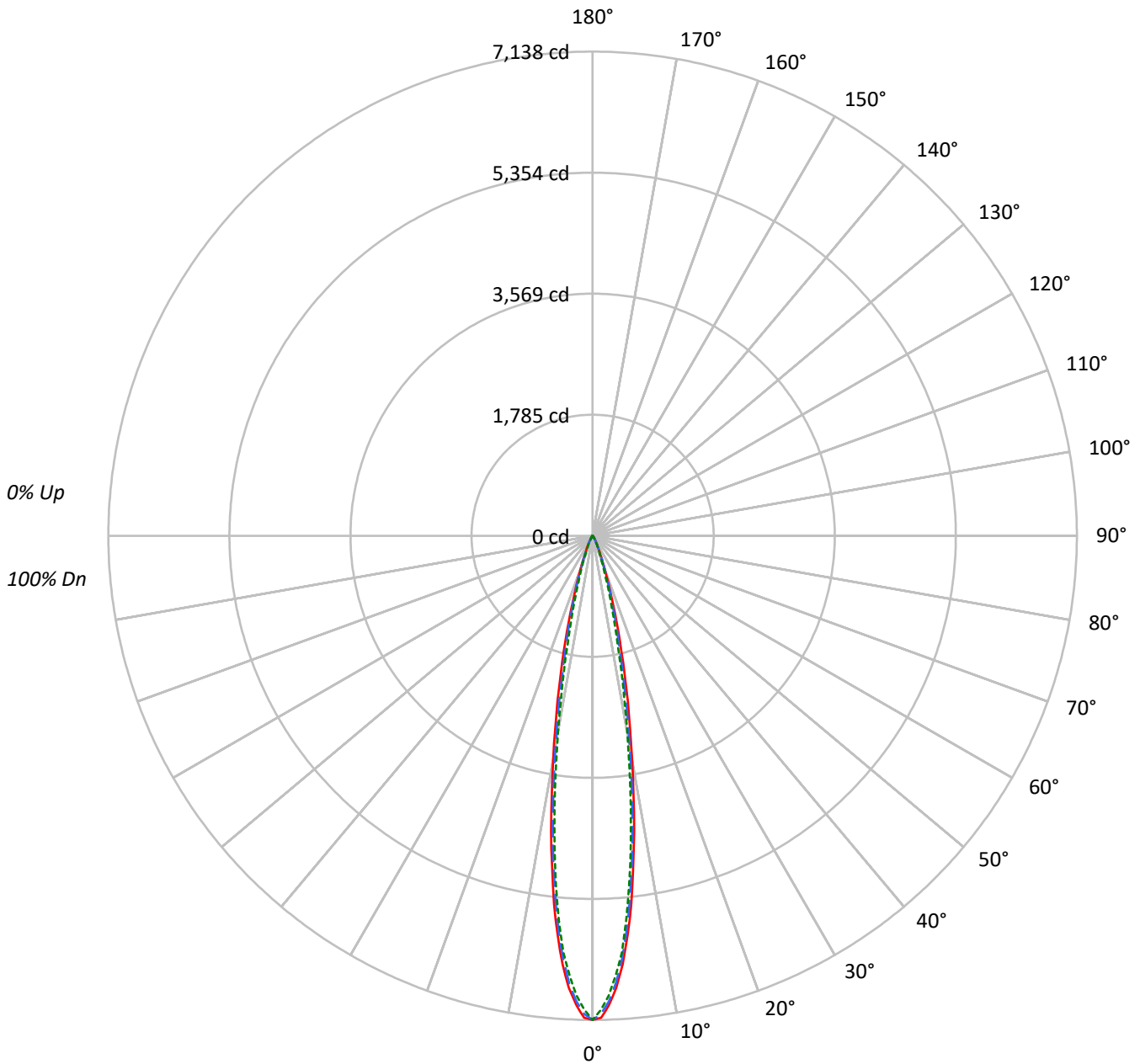
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	84	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°	3521468	3521468	3521468
5°	2930224	2876490	2818447
10°	1678409	1574958	1469904
15°	746535	663025	555611
20°	270808	254637	201714
25°	103974	97115	83614
30°	44834	41701	37030
35°	21200	21200	17587
40°	10627	11013	8888
45°	6140	5791	5372
50°	4221	3838	3838
55°	3355	2408	2838
60°	2763	1677	2171
65°	1985	1284	1985
70°	1587	865	1587
75°	1144	1144	1144
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	464.2	48.1
10°-20°	375.7	38.9
20°-30°	90.6	9.4
30°-40°	23.1	2.4
40°-50°	6.9	0.7
50°-60°	3.0	0.3
60°-70°	1.4	0.1
70°-80°	0.5	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°	930.5	96.4
0°-40°	953.6	98.8
0°-60°	963.4	99.8
0°-90°	965.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	965.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7138	7138	7138	7138	7138	
5°	5917	5862	5808	5758	5691	478
15°	1462	1427	1298	1169	1088	417
25°	191	192	178	162	154	99
35°	35	36	35	32	29	24
45°	9	9	8	8	8	7
55°	4	3	3	3	3	3
65°	2	2	1	1	2	2
75°	1	1	1	1	1	1
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°	7137.7	7137.7	7137.7	7137.7	7137.7
1°	7105.7	7056.2	7050.1	7081.0	6990.1
2°	6924.1	6888.8	6868.5	6886.6	6783.7
3°	6674.7	6640.6	6603.7	6604.2	6489.2
4°	6335.0	6308.1	6245.9	6227.1	6160.5
5°	5916.7	5862.2	5808.2	5757.6	5691.0
6°	5454.3	5383.8	5306.7	5231.3	5163.0
7°	4910.4	4863.6	4761.7	4658.8	4601.0
8°	4399.0	4323.5	4204.6	4075.8	4026.8
9°	3849.0	3795.1	3658.6	3508.8	3459.8
10°	3350.3	3294.1	3143.8	2977.0	2934.1
11°	2882.4	2829.5	2673.2	2498.1	2452.4
12°	2486.6	2411.7	2232.2	2080.3	2035.7
13°	2092.4	2041.2	1871.1	1720.8	1634.4
14°	1757.2	1714.8	1560.6	1428.5	1337.1
15°	1461.6	1426.9	1298.1	1169.2	1087.8
16°	1199.0	1177.5	1075.7	951.2	884.6
17°	972.7	952.9	887.9	773.4	717.3
18°	785.5	782.8	728.8	629.8	579.7
19°	646.3	645.2	595.6	512.5	471.2
20°	515.8	523.0	485.0	412.3	384.2
21°	420.6	424.4	394.2	339.1	313.8
22°	342.4	345.2	325.3	280.2	266.4
23°	280.7	282.4	265.9	232.3	220.2
24°	231.2	232.3	217.4	193.8	183.3
25°	191.0	192.1	178.4	161.8	153.6
26°	158.5	159.6	147.5	136.0	127.7
27°	131.6	133.8	121.7	114.5	105.7
28°	112.3	112.9	101.8	97.4	89.2
29°	91.9	95.2	85.9	82.0	76.0
30°	78.7	80.4	73.2	70.5	65.0
32.5°	52.3	53.4	50.1	47.9	43.5
35°	35.2	35.8	35.2	31.9	29.2
37.5°	24.2	24.2	24.8	20.9	19.8
40°	16.5	16.5	17.1	14.3	13.8
42.5°	12.1	12.1	11.6	9.9	9.9
45°	8.8	8.8	8.3	7.7	7.7
47.5°	7.2	6.6	6.1	6.1	6.1
50°	5.5	5.5	5.0	4.4	5.0
52.5°	4.4	4.4	3.9	3.9	3.9
55°	3.9	3.3	2.8	2.8	3.3
57.5°	2.8	2.8	2.2	2.2	2.8
60°	2.8	2.2	1.7	2.2	2.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1.7	1.1	1.1	1.1	1.1
70°	1.1	1.1	0.6	0.6	1.1
72.5°	0.6	0.6	0.6	0.6	0.6
75°	0.6	0.6	0.6	0.6	0.6
77.5°	0.6	0.6	0.0	0.0	0.6
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°	2.2	1.7	1.7	1.7	1.7
65°	1.7	1.7	1.1	1.1	1.7



(END OF REPORT)