

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: P282739

Luminaire Tested: **LDA2B159727D010 EU2B15NFL259727 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282739
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: LDA2B159727D010 EU2B15NFL259727 2LBALPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 1500 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: 849.0 lumens
Efficiency: N/A
Efficacy: 60.2 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

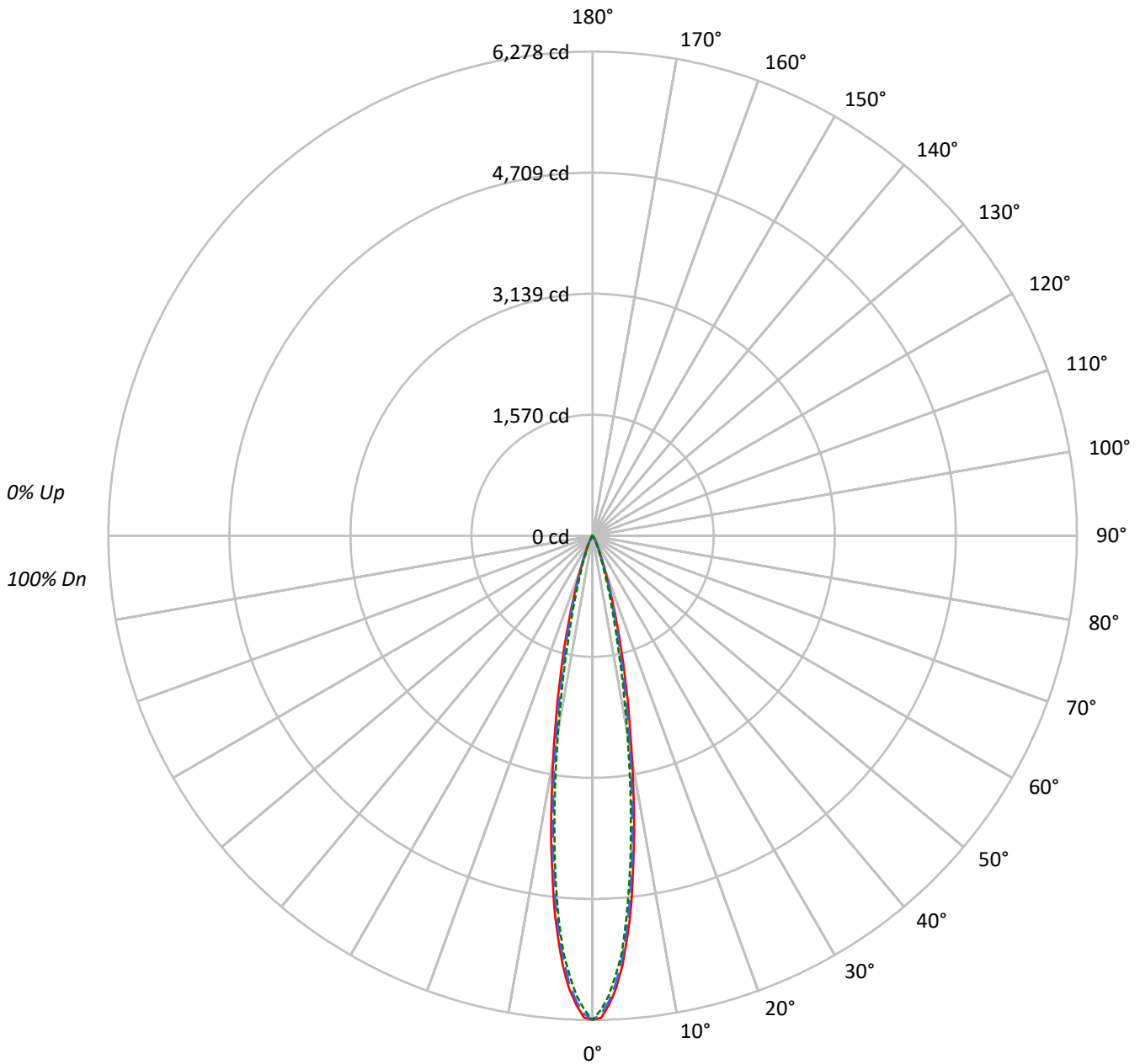
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3097079	3097079	3097079
5°	2577113	2529867	2478807
10°	1476166	1385189	1292760
15°	656538	583090	488650
20°	238204	223923	177406
25°	91453	85411	73544
30°	39422	36688	32529
35°	18671	18671	15479
40°	9339	9661	7793
45°	5372	5093	4744
50°	3684	3377	3377
55°	2925	2064	2494
60°	2368	1480	1875
65°	1751	1167	1751
70°	1442	721	1442
75°	953	953	953
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	408.3	48.1
10°-20°	330.4	38.9
20°-30°	79.7	9.4
30°-40°	20.3	2.4
40°-50°	6.1	0.7
50°-60°	2.6	0.3
60°-70°	1.3	0.2
70°-80°	0.4	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°	818.4	96.4
0°-40°	838.7	98.8
0°-60°	847.3	99.8
0°-90°	849.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	849.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6278	6278	6278	6278	6278	
5°	5204	5156	5108	5064	5005	421
15°	1285	1255	1142	1028	957	367
25°	168	169	157	142	135	87
35°	31	32	31	28	26	21
45°	8	8	7	7	7	7
55°	3	3	2	2	3	3
65°	2	2	1	1	2	2
75°	0	0	0	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6277.5	6277.5	6277.5	6277.5	6277.5
1°	6249.4	6205.9	6200.5	6227.7	6147.8
2°	6089.7	6058.7	6040.8	6056.8	5966.2
3°	5870.4	5840.3	5807.9	5808.4	5707.2
4°	5571.6	5547.9	5493.2	5476.7	5418.2
5°	5203.7	5155.7	5108.3	5063.8	5005.2
6°	4797.0	4735.0	4667.2	4600.9	4540.9
7°	4318.6	4277.5	4187.9	4097.4	4046.6
8°	3868.9	3802.5	3698.0	3584.7	3541.6
9°	3385.2	3337.8	3217.7	3086.0	3042.9
10°	2946.6	2897.2	2765.0	2618.3	2580.5
11°	2535.0	2488.5	2351.0	2197.1	2156.9
12°	2186.9	2121.1	1963.2	1829.6	1790.4
13°	1840.3	1795.2	1645.6	1513.5	1437.5
14°	1545.4	1508.1	1372.6	1256.4	1176.0
15°	1285.4	1254.9	1141.6	1028.3	956.7
16°	1054.5	1035.6	946.0	836.6	778.0
17°	855.5	838.1	780.9	680.2	630.9
18°	690.9	688.5	641.0	553.9	509.8
19°	568.4	567.4	523.9	450.7	414.4
20°	453.7	459.9	426.5	362.6	337.9
21°	369.9	373.3	346.7	298.2	276.0
22°	301.1	303.6	286.1	246.4	234.3
23°	246.9	248.4	233.8	204.3	193.7
24°	203.3	204.3	191.2	170.4	161.2
25°	168.0	169.0	156.9	142.3	135.1
26°	139.4	140.4	129.8	119.6	112.3
27°	115.7	117.6	107.0	100.7	93.0
28°	98.8	99.3	89.6	85.7	78.4
29°	80.9	83.8	75.5	72.1	66.8
30°	69.2	70.7	64.4	62.0	57.1
32.5°	46.0	47.0	44.1	42.1	38.2
35°	31.0	31.5	31.0	28.1	25.7
37.5°	21.3	21.3	21.8	18.4	17.4
40°	14.5	14.5	15.0	12.6	12.1
42.5°	10.7	10.7	10.2	8.7	8.7
45°	7.7	7.7	7.3	6.8	6.8
47.5°	6.3	5.8	5.3	5.3	5.3
50°	4.8	4.8	4.4	3.9	4.4
52.5°	3.9	3.9	3.4	3.4	3.4
55°	3.4	2.9	2.4	2.4	2.9
57.5°	2.4	2.4	1.9	1.9	2.4
60°	2.4	1.9	1.5	1.9	1.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1.5	1.0	1.0	1.0	1.0
70°	1.0	1.0	0.5	0.5	1.0
72.5°	0.5	0.5	0.5	0.5	0.5
75°	0.5	0.5	0.5	0.5	0.5
77.5°	0.5	0.5	0.0	0.0	0.5
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°	1.9	1.5	1.5	1.5	1.5
65°	1.5	1.5	1.0	1.0	1.5



(END OF REPORT)