

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: P282720

Luminaire Tested: **LDA2B159024D010 EU2B15NFL259024 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282720
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: LDA2B159024D010 EU2B15NFL259024 2LBALPINSQ1MB
Description: PORTFOLIO 2IN ADJ 1500 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: 861.3 lumens
Efficiency: N/A
Efficacy: 61.1 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

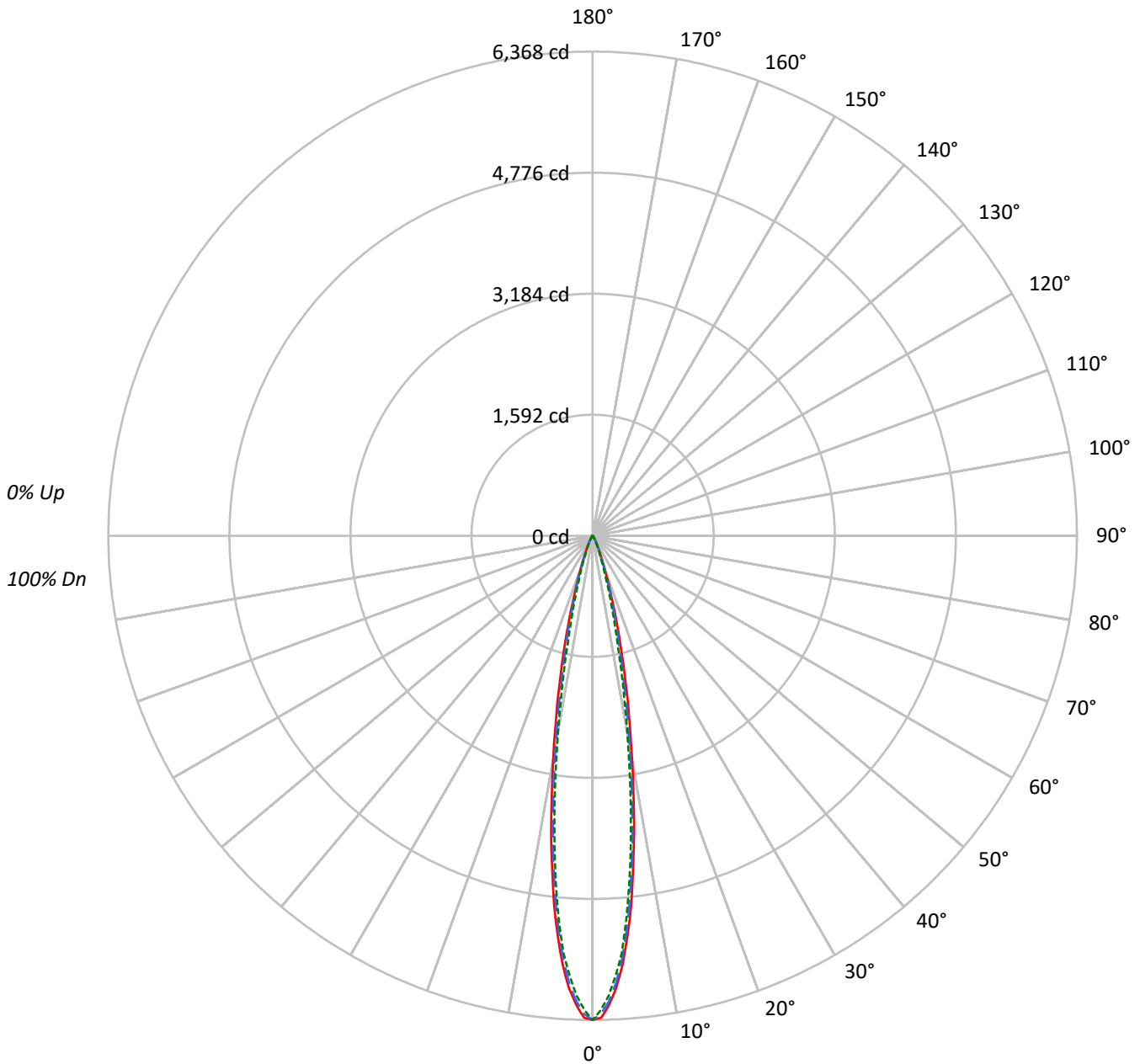
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3141876	3141876	3141876
5°	2614356	2566466	2514663
10°	1497508	1405228	1311496
15°	666038	591518	495698
20°	241616	227178	179978
25°	92760	86608	74578
30°	39992	37200	33042
35°	18912	18912	15659
40°	9467	9789	7922
45°	5512	5163	4814
50°	3761	3377	3377
55°	2925	2150	2494
60°	2467	1480	1973
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°	414.2	48.1
10°-20°	335.2	38.9
20°-30°	80.8	9.4
30°-40°	20.6	2.4
40°-50°	6.1	0.7
50°-60°	2.6	0.3
60°-70°	1.3	0.1
70°-80°	0.4	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°	830.2	96.4
0°-40°	850.8	98.8
0°-60°	859.6	99.8
0°-90°	861.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	861.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6368	6368	6368	6368	6368	
5°	5279	5230	5182	5137	5078	427
15°	1304	1273	1158	1043	970	372
25°	170	171	159	144	137	88
35°	31	32	31	28	26	22
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°	6368.3	6368.3	6368.3	6368.3	6368.3
1°	6339.8	6295.6	6290.2	6317.7	6236.7
2°	6177.8	6146.3	6128.2	6144.4	6052.5
3°	5955.3	5924.8	5891.9	5892.4	5789.8
4°	5652.2	5628.2	5572.7	5556.0	5496.5
5°	5278.9	5230.3	5182.2	5137.0	5077.6
6°	4866.4	4803.5	4734.7	4667.5	4606.6
7°	4381.1	4339.4	4248.5	4156.7	4105.1
8°	3924.8	3857.5	3751.5	3636.5	3592.8
9°	3434.2	3386.0	3264.2	3130.6	3086.9
10°	2989.2	2939.1	2805.0	2656.2	2617.9
11°	2571.7	2524.5	2385.1	2228.9	2188.1
12°	2218.6	2151.8	1991.6	1856.1	1816.3
13°	1866.9	1821.2	1669.4	1535.4	1458.2
14°	1567.8	1530.0	1392.4	1274.6	1193.0
15°	1304.0	1273.1	1158.1	1043.2	970.5
16°	1069.7	1050.6	959.7	848.7	789.3
17°	867.9	850.2	792.2	690.1	640.0
18°	700.9	698.4	650.3	561.9	517.2
19°	576.6	575.6	531.4	457.3	420.4
20°	460.2	466.6	432.7	367.9	342.8
21°	375.2	378.7	351.7	302.6	280.0
22°	305.5	308.0	290.3	250.0	237.7
23°	250.5	252.0	237.2	207.3	196.5
24°	206.3	207.3	194.0	172.9	163.6
25°	170.4	171.4	159.1	144.4	137.0
26°	141.5	142.4	131.6	121.3	113.9
27°	117.4	119.4	108.5	102.2	94.3
28°	100.2	100.7	90.9	86.9	79.6
29°	82.0	85.0	76.6	73.2	67.8
30°	70.2	71.7	65.3	62.9	58.0
32.5°	46.7	47.6	44.7	42.7	38.8
35°	31.4	31.9	31.4	28.5	26.0
37.5°	21.6	21.6	22.1	18.7	17.7
40°	14.7	14.7	15.2	12.8	12.3
42.5°	10.8	10.8	10.3	8.8	8.8
45°	7.9	7.9	7.4	6.9	6.9
47.5°	6.4	5.9	5.4	5.4	5.4
50°	4.9	4.9	4.4	3.9	4.4
52.5°	3.9	3.9	3.4	3.4	3.4
55°	3.4	2.9	2.5	2.5	2.9
57.5°	2.5	2.5	2.0	2.0	2.5
60°	2.5	2.0	1.5	2.0	2.0



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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°	2.0	1.5	1.5	1.5	1.5
65°	1.5	1.5	1.0	1.0	1.5



(END OF REPORT)