

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: P281713

Luminaire Tested: **LDA2B159027D010 EU2B15SP159027 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P281713
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1808-908-10)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B159027D010 EU2B15SP159027 2LBAPINSQ1MB
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH SPOT OPTIC AND 2in Adj SQ PinHole, MB
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1113.0 lumens
Efficiency: N/A
Efficacy: 78.9 lumens/watt
Spacing Criteria (0/90/45): 0.3 / 0.3 / 0.29
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

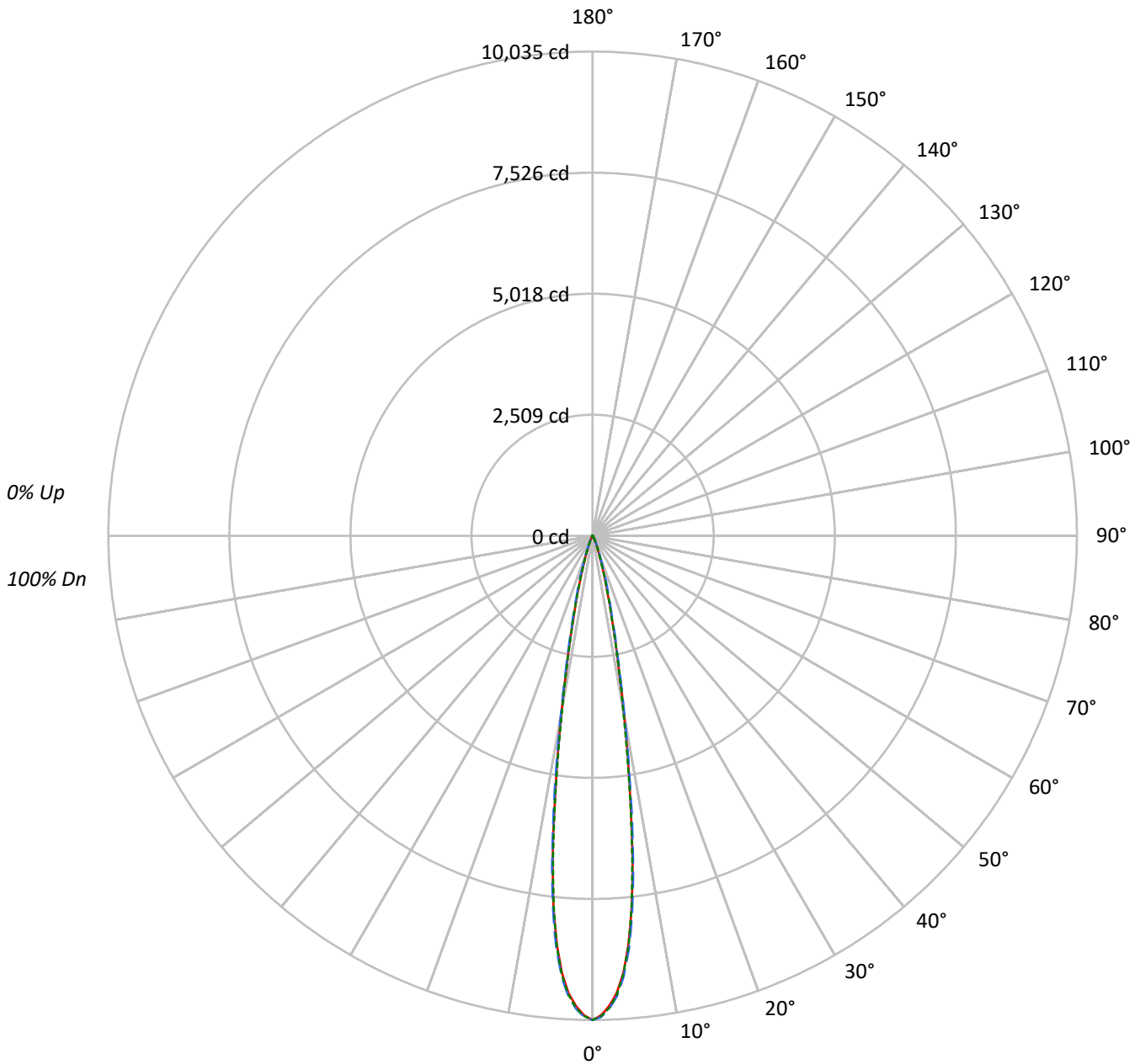
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98																			
2	113	110	107	105	111	108	106	104	105	103	102	102	101	99	99	98	97	96																			
3	110	106	103	101	108	105	102	100	102	100	98	100	98	97	98	97	95	94																			
4	107	103	100	97	106	102	99	97	100	98	96	98	96	95	97	95	94	93																			
5	105	100	97	95	104	100	96	94	98	95	93	97	94	93	95	93	92	91																			
6	103	98	95	92	102	97	94	92	96	93	91	95	93	91	94	92	90	89																			
7	101	96	93	90	100	95	92	90	94	92	90	93	91	89	93	90	89	88																			
8	99	94	91	89	98	94	91	88	93	90	88	92	90	88	91	89	88	87																			
9	98	92	89	87	97	92	89	87	91	89	87	91	88	86	90	88	86	85																			
10	96	91	88	86	95	90	88	86	90	87	85	89	87	85	89	87	85	84																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4950935	4950935	4950935
5°	4215884	4259812	4223857
10°	1861264	1903796	1817779
15°	564754	647753	573641
20°	169005	225288	188851
25°	65814	64834	69189
30°	29339	26490	27915
35°	5963	5240	5240
40°	0	386	1610
45°	5163	4326	7814
50°	0	1458	4759
55°	0	0	2150
60°	0	592	2467
65°	0	0	1401
70°	0	3606	7212
75°	0	0	0
80°	0	0	0
85°	0	3396	14152



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	650.5	58.5
10°-20°	371.6	33.4
20°-30°	70.5	6.3
30°-40°	12.8	1.2
40°-50°	3.3	0.3
50°-60°	2.5	0.2
60°-70°	0.4	0.0
70°-80°	0.6	0.1
80°-90°	0.8	0.1
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°	1092.6	98.2
0°-40°	1105.4	99.3
0°-60°	1111.2	99.8
0°-90°	1113.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1113.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10035	10035	10035	10035	10035	
5°	8513	8568	8601	8586	8529	646
15°	1106	1202	1268	1191	1123	352
25°	121	130	119	136	127	63
35°	10	12	9	10	9	14
45°	7	12	6	7	11	4
55°	0	1	0	1	2	1
65°	0	0	0	0	1	0
75°	0	0	0	0	0	0
85°	0	1	1	1	2	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10035.1	10035.1	10035.1	10035.1	10035.1
1°	9940.3	9950.8	9973.1	9996.1	9960.1
2°	9754.2	9779.6	9811.3	9832.4	9793.3
3°	9493.8	9529.1	9562.6	9566.9	9530.3
4°	9091.3	9134.7	9170.0	9165.7	9119.8
5°	8512.7	8568.5	8601.4	8586.5	8528.8
6°	7748.1	7802.0	7844.2	7801.4	7723.9
7°	6795.5	6857.5	6902.2	6829.0	6734.1
8°	5691.7	5778.5	5823.1	5720.8	5623.4
9°	4646.1	4706.3	4751.5	4639.9	4540.7
10°	3715.3	3825.7	3800.2	3714.0	3628.5
11°	2922.1	3022.0	3026.3	2968.0	2884.3
12°	2287.7	2393.1	2419.8	2375.1	2300.7
13°	1807.7	1886.5	1930.5	1884.6	1813.9
14°	1438.7	1508.8	1565.2	1505.7	1435.0
15°	1105.7	1202.5	1268.2	1191.3	1123.1
16°	879.4	959.4	1037.5	950.1	895.5
17°	675.3	746.7	827.3	747.9	703.2
18°	534.6	591.0	679.7	597.8	558.7
19°	418.6	461.4	543.9	471.9	440.3
20°	321.9	369.0	429.1	380.1	359.7
22.5°	194.7	220.8	238.1	223.3	212.7
25°	120.9	130.2	119.1	135.8	127.1
26°	105.4	112.2	109.8	120.9	110.4
27°	84.3	93.0	86.2	94.9	91.8
28°	76.9	87.4	73.8	84.3	79.4
29°	54.0	58.3	52.7	56.4	56.4
30°	51.5	52.7	46.5	50.9	49.0
32.5°	40.3	37.8	31.0	32.9	31.6
35°	9.9	12.4	8.7	10.5	8.7
37.5°	14.9	13.6	16.1	15.5	14.9
40°	0.0	0.6	0.6	0.6	2.5
42.5°	11.2	6.8	6.2	4.3	7.4
45°	7.4	11.8	6.2	6.8	11.2
47.5°	0.0	0.6	0.0	1.2	1.2
50°	0.0	1.2	1.9	2.5	6.2
52.5°	1.2	7.4	3.7	6.8	9.9
55°	0.0	0.6	0.0	0.6	2.5
57.5°	2.5	1.2	2.5	2.5	11.2
60°	0.0	1.2	0.6	0.6	2.5
62.5°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	1.2
67.5°	0.0	0.6	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.6	0.0	0.0
80°	0.0	0.6	0.0	0.0	0.0
82.5°	0.0	0.6	1.2	1.9	1.2
85°	0.0	0.6	0.6	0.6	2.5
87.5°	0.0	1.2	1.9	0.0	1.2
90°	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270°







70°	0.0	1.9	2.5	0.0	5.0
72.5°	0.0	3.1	0.6	0.6	0.0



(END OF REPORT)