

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: P281546

Luminaire Tested: **LDA2B159027D010 EU2B15SP159027 2LBASQC1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P281546
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1808-908-6)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B159027D010 EU2B15SP159027 2LBASQC1MMS
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH SPOT OPTIC AND 2in Adj SQ Cast Trim, MMS
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): 0.31 / 0.31 / 0.29
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

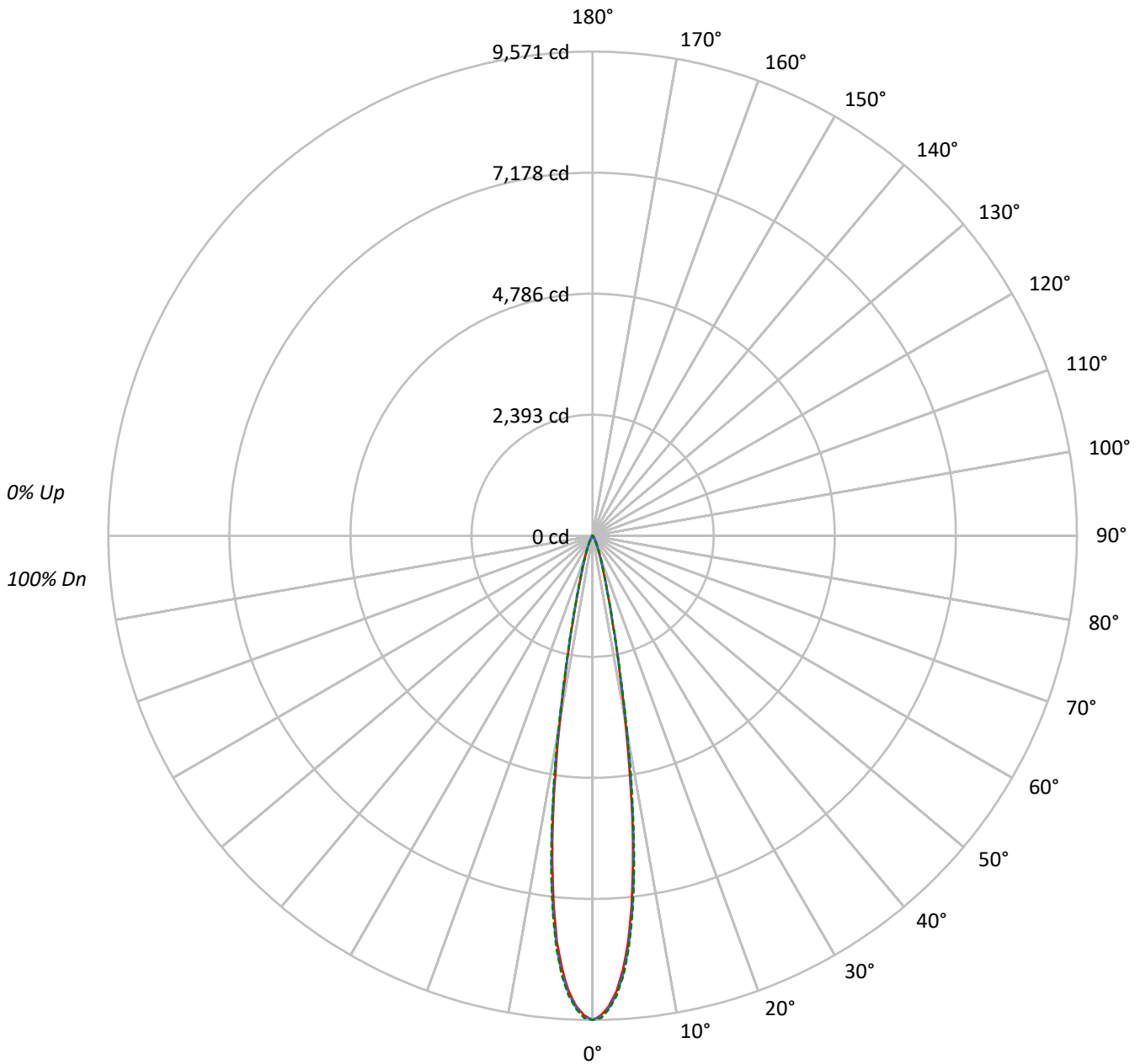
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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																			
1	116	114	112	111	113	112	110	109	108	107	106	104	103	102	101	100	99	98	99	98	98																
2	113	109	107	105	111	108	105	103	105	103	101	102	100	99	99	98	97	96	99	98	97																
3	110	106	103	100	108	104	102	99	102	100	98	100	98	96	98	96	95	94	98	96	95																
4	107	103	99	97	106	102	99	96	100	97	95	98	96	94	96	95	93	92	96	95	93																
5	105	100	96	94	103	99	96	93	98	95	93	96	94	92	95	93	91	90	95	93	91																
6	103	97	94	91	101	97	94	91	96	93	91	94	92	90	93	91	90	89	93	91	90																
7	100	95	92	89	100	95	91	89	94	91	89	93	90	88	92	90	88	87	92	90	88																
8	99	93	90	88	98	93	90	87	92	89	87	91	89	87	90	88	86	86	90	88	86																
9	97	91	88	86	96	91	88	86	90	88	86	90	87	85	89	87	85	84	89	87	85																
10	95	90	87	84	94	89	86	84	89	86	84	88	86	84	88	85	84	83	88	85	84																

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4722015	4722015	4722015
5°	3996589	4038387	4055969
10°	1868879	1939716	1943473
15°	547388	555356	555049
20°	219828	220090	220405
25°	97986	107947	100326
30°	41644	57253	37941
35°	19092	26561	17828
40°	6247	10369	5539
45°	0	3768	0
50°	0	0	0
55°	1806	946	0
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	3125	0	0
85°	6227	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	632.5	56.8
10°-20°	358.5	32.2
20°-30°	93.6	8.4
30°-40°	24.1	2.2
40°-50°	2.4	0.2
50°-60°	0.8	0.1
60°-70°	0.1	0.0
70°-80°	0.8	0.1
80°-90°	0.2	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°	1084.6	97.5
0°-40°	1108.8	99.6
0°-60°	1111.9	99.9
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°	9571	9571	9571	9571	9571	
5°	8070	8142	8154	8103	8190	624
15°	1072	1086	1087	1075	1087	352
25°	180	195	198	189	184	89
35°	32	34	44	30	30	22
45°	0	2	5	0	0	2
55°	2	3	1	0	0	1
65°	0	0	0	0	0	1
75°	0	0	0	0	0	2
85°	1	0	0	0	0	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9571.1	9571.1	9571.1	9571.1	9571.1
1°	9481.3	9518.9	9507.7	9494.2	9531.8
2°	9298.6	9335.1	9331.9	9314.2	9358.2
3°	9017.0	9068.0	9068.0	9041.7	9096.5
4°	8597.2	8675.1	8682.7	8645.6	8713.8
5°	8069.9	8142.0	8154.3	8102.7	8189.8
6°	7355.7	7454.0	7482.0	7422.3	7511.5
7°	6535.0	6638.2	6680.6	6614.0	6713.9
8°	5649.8	5723.9	5775.0	5698.7	5800.3
9°	4659.2	4766.2	4812.9	4738.8	4837.7
10°	3730.5	3828.9	3871.9	3854.1	3879.4
11°	2897.4	2984.5	3013.5	2989.3	3001.2
12°	2268.6	2303.5	2322.4	2306.2	2314.3
13°	1722.6	1769.3	1777.9	1770.9	1774.7
14°	1345.3	1367.8	1377.5	1374.3	1375.9
15°	1071.7	1086.2	1087.3	1074.9	1086.7
16°	863.2	874.4	879.3	866.4	882.0
17°	707.3	716.4	721.8	708.9	715.4
18°	582.1	589.1	596.6	585.3	595.0
19°	488.6	492.9	493.4	490.2	492.9
20°	418.7	416.5	419.2	413.3	419.8
22.5°	275.7	281.1	287.5	280.6	283.2
25°	180.0	195.1	198.3	189.2	184.3
26°	148.3	167.7	176.3	161.8	146.2
27°	123.1	137.1	148.3	129.0	116.6
28°	108.0	119.9	131.1	112.9	98.4
29°	90.3	102.1	121.5	100.5	91.4
30°	73.1	81.7	100.5	76.3	66.6
32.5°	41.4	48.4	65.0	45.1	37.1
35°	31.7	33.9	44.1	30.1	29.6
37.5°	27.4	24.7	34.4	24.7	19.9
40°	9.7	14.5	16.1	10.7	8.6
42.5°	4.3	4.3	7.0	2.1	2.1
45°	0.0	2.1	5.4	0.5	0.0
47.5°	0.0	0.0	1.1	0.0	0.0
50°	0.0	1.1	0.0	0.0	0.0
52.5°	1.1	0.0	0.0	0.0	0.0
55°	2.1	2.7	1.1	0.5	0.0
57.5°	3.2	2.7	1.1	1.1	1.1
60°	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0
67.5°	1.1	0.5	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
75°	0.0	0.5	0.0	0.0	0.0
77.5°	5.4	1.1	1.6	1.1	2.1
80°	1.1	0.0	0.0	0.0	0.0
82.5°	2.1	0.0	0.0	0.0	0.0
85°	1.1	0.0	0.0	0.0	0.0
87.5°	0.0	0.5	0.0	0.5	0.0
90°	0.0	0.0	0.0	0.0	0.0



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







70°	0.0	0.0	0.0	0.0	0.0
72.5°	2.1	1.6	0.0	0.0	2.1



(END OF REPORT)