

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: P281621

Luminaire Tested: **LDA2B058040D010 EU2B05SP158040 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P281621
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: LDA2B058040D010 EU2B05SP158040 2LBAPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH SPOT OPTIC AND 2in Adj SQ PinHole, MMS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 838.2 lumens
Efficiency: N/A
Efficacy: 119.7 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

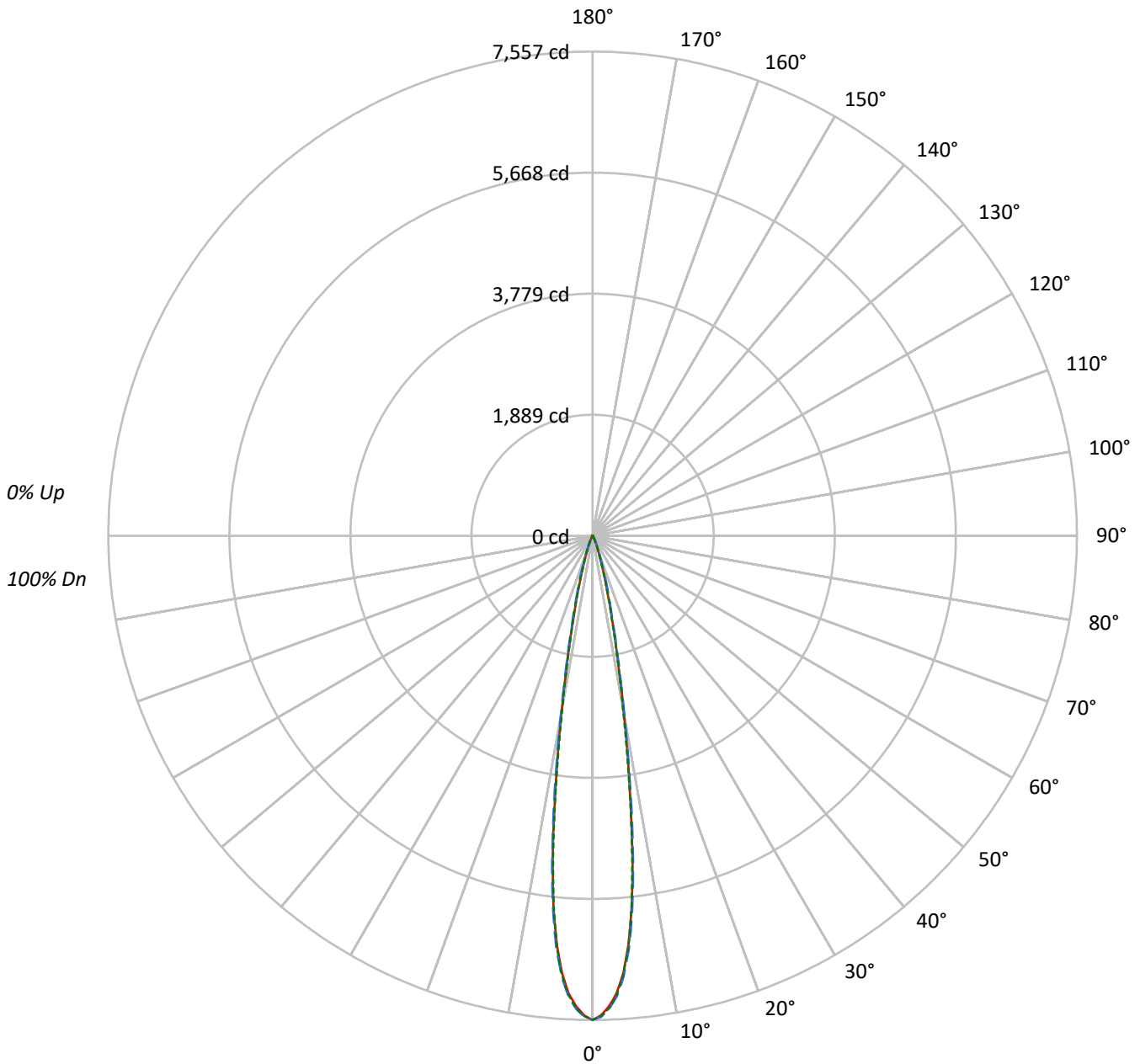
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					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	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	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98					98			
2	113	110	107	105	111	108	106	104	105	103	102	102	101	99	99	98	97	96					96			
3	110	106	103	101	108	105	102	100	102	100	98	100	98	97	98	97	95	94					94			
4	107	103	100	97	106	102	99	97	100	98	96	98	96	95	97	95	94	93					93			
5	105	100	97	95	104	100	96	94	98	95	93	97	94	93	95	93	92	91					91			
6	103	98	95	92	102	97	94	92	96	93	91	95	93	91	94	92	90	89					89			
7	101	96	93	90	100	95	92	90	94	92	90	93	91	89	93	90	89	88					88			
8	99	94	91	89	98	94	91	88	93	90	88	92	90	88	91	89	88	87					87			
9	98	92	89	87	97	92	89	87	91	89	87	91	88	86	90	88	86	85					85			
10	96	91	88	86	95	90	88	86	90	87	85	89	87	85	89	87	85	84					84			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3728286	3728286	3728286
5°	3174777	3207810	3180769
10°	1401621	1433684	1368858
15°	425315	487781	431955
20°	127266	169688	142229
25°	49592	48829	52096
30°	22104	19939	21021
35°	4517	3915	3915
40°	0	322	1224
45°	3907	3279	5861
50°	0	1075	3607
55°	0	0	1634
60°	0	493	1875
65°	0	0	1051
70°	0	2741	5337
75°	0	0	0
80°	0	0	0
85°	0	2830	10755



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	489.9	58.4
10°-20°	279.8	33.4
20°-30°	53.1	6.3
30°-40°	9.6	1.2
40°-50°	2.5	0.3
50°-60°	1.9	0.2
60°-70°	0.3	0.0
70°-80°	0.4	0.1
80°-90°	0.6	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°	822.8	98.2
0°-40°	832.4	99.3
0°-60°	836.8	99.8
0°-90°	838.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	838.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7557	7557	7557	7557	7557	
5°	6410	6452	6477	6466	6423	487
15°	833	906	955	897	846	265
25°	91	98	90	102	96	48
35°	8	9	6	8	6	10
45°	6	9	5	5	8	3
55°	0	0	0	0	2	1
65°	0	0	0	0	1	0
75°	0	0	0	0	0	0
85°	0	0	0	0	2	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7556.9	7556.9	7556.9	7556.9	7556.9
1°	7485.5	7493.4	7510.2	7527.5	7500.4
2°	7345.4	7364.5	7388.3	7404.2	7374.8
3°	7149.2	7175.9	7201.1	7204.4	7176.8
4°	6846.2	6878.9	6905.5	6902.2	6867.6
5°	6410.5	6452.5	6477.2	6466.0	6422.6
6°	5834.7	5875.3	5907.0	5874.8	5816.4
7°	5117.3	5164.0	5197.7	5142.6	5071.1
8°	4286.1	4351.5	4385.1	4308.0	4234.7
9°	3498.7	3544.0	3578.1	3494.1	3419.3
10°	2797.8	2880.9	2861.8	2796.8	2732.4
11°	2200.5	2275.7	2278.9	2235.0	2172.0
12°	1722.7	1802.1	1822.2	1788.6	1732.6
13°	1361.3	1420.6	1453.8	1419.2	1366.0
14°	1083.4	1136.2	1178.7	1133.9	1080.6
15°	832.7	905.5	955.0	897.1	845.7
16°	662.2	722.4	781.3	715.4	674.3
17°	508.6	562.3	623.0	563.2	529.6
18°	402.6	445.0	511.8	450.2	420.8
19°	315.2	347.4	409.6	355.4	331.6
20°	242.4	277.9	323.2	286.3	270.9
22.5°	146.6	166.3	179.3	168.1	160.2
25°	91.1	98.1	89.7	102.3	95.7
26°	79.4	84.5	82.7	91.1	83.1
27°	63.5	70.0	64.9	71.5	69.1
28°	57.9	65.8	55.6	63.5	59.8
29°	40.6	43.9	39.7	42.5	42.5
30°	38.8	39.7	35.0	38.3	36.9
32.5°	30.4	28.5	23.3	24.8	23.8
35°	7.5	9.3	6.5	7.9	6.5
37.5°	11.2	10.3	12.1	11.7	11.2
40°	0.0	0.5	0.5	0.5	1.9
42.5°	8.4	5.1	4.7	3.3	5.6
45°	5.6	8.9	4.7	5.1	8.4
47.5°	0.0	0.5	0.0	0.9	0.9
50°	0.0	0.9	1.4	1.9	4.7
52.5°	0.9	5.6	2.8	5.1	7.5
55°	0.0	0.5	0.0	0.5	1.9
57.5°	1.9	0.9	1.9	1.9	8.4
60°	0.0	0.9	0.5	0.5	1.9
62.5°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.9
67.5°	0.0	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	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.5	0.0	0.0
80°	0.0	0.5	0.0	0.0	0.0
82.5°	0.0	0.5	0.9	1.4	0.9
85°	0.0	0.5	0.5	0.5	1.9
87.5°	0.0	0.9	1.4	0.0	0.9
90°	0.0	0.0	0.0	0.0	0.0



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







70°	0.0	1.4	1.9	0.0	3.7
72.5°	0.0	2.3	0.5	0.5	0.0



(END OF REPORT)