

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: P283480

Luminaire Tested: **LDA2B058040D010 EU2B05FL408040 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283480
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-15)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B058040D010 EU2B05FL408040 2LBAPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MMS

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 729.3 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Spacing Criteria (0/90/45): 0.55 / 0.55 / 0.55
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

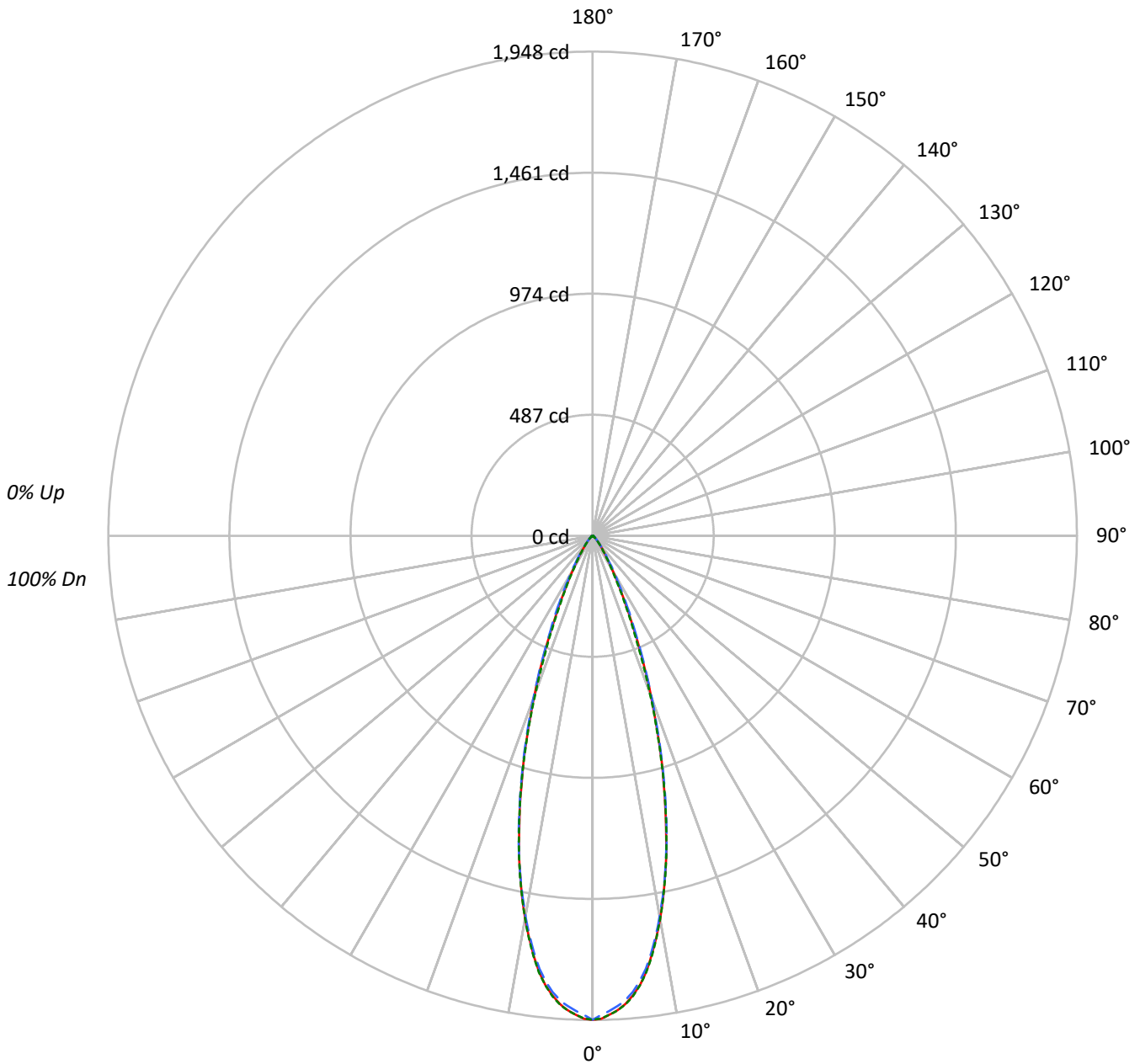
Input Watts (W): 7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95																			
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90																			
3	105	100	96	92	104	99	95	92	96	93	90	94	91	89	92	89	88	86																			
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	83	82																			
5	98	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	79																			
6	94	87	82	78	93	86	81	78	84	80	77	83	80	77	82	79	76	75																			
7	91	83	78	75	89	82	78	74	81	77	74	80	76	74	79	76	73	72																			
8	87	80	75	71	86	79	74	71	78	74	71	77	73	71	76	73	70	69																			
9	84	77	72	69	83	76	72	68	75	71	68	74	71	68	74	70	68	67																			
10	82	74	69	66	81	73	69	66	73	69	66	72	68	65	71	68	65	64																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	960871	960871	960871
5°	919573	912640	920960
10°	783421	778512	784223
15°	577421	581200	579310
20°	360482	367150	352502
25°	186227	199782	176864
30°	89270	102315	85054
35°	46075	51013	43124
40°	25826	27114	24538
45°	15699	15699	15141
50°	8136	10055	8136
55°	4215	6709	4559
60°	4835	4835	4835
65°	5253	5253	5253
70°	6491	5914	6491
75°	6290	6290	6290
80°	5682	5682	5682
85°	4529	4529	4529



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.5	23.0
10°-20°	307.7	42.2
20°-30°	166.8	22.9
30°-40°	53.5	7.3
40°-50°	18.3	2.5
50°-60°	6.4	0.9
60°-70°	4.6	0.6
70°-80°	3.4	0.5
80°-90°	1.0	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
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0°-30°	642.1	88.0
0°-40°	695.6	95.4
0°-60°	720.3	98.8
0°-90°	729.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	729.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1948	1948	1948	1948	1948	
5°	1857	1845	1843	1861	1860	168
15°	1130	1140	1138	1143	1134	306
25°	342	358	367	342	325	164
35°	76	80	85	77	72	52
45°	22	23	22	22	22	18
55°	5	6	8	6	5	5
65°	4	5	4	5	4	5
75°	3	3	3	3	3	3
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1947.6	1947.6	1947.6	1947.6	1947.6
1°	1944.3	1930.4	1928.4	1946.4	1942.3
2°	1928.8	1915.7	1913.6	1931.6	1928.0
3°	1911.6	1899.7	1895.6	1914.5	1912.0
4°	1888.7	1877.6	1873.9	1892.8	1890.7
5°	1856.8	1845.3	1842.8	1861.3	1859.6
6°	1817.5	1808.1	1803.6	1822.0	1818.7
7°	1768.4	1759.8	1754.9	1768.4	1770.0
8°	1704.6	1700.5	1694.7	1708.2	1708.2
9°	1636.6	1633.0	1626.8	1639.1	1639.1
10°	1563.8	1561.3	1554.0	1565.4	1565.4
11°	1484.0	1482.8	1477.5	1486.9	1486.9
12°	1400.1	1403.0	1398.1	1406.3	1403.4
13°	1316.3	1315.0	1315.4	1321.6	1317.1
14°	1221.3	1228.7	1229.9	1233.6	1226.7
15°	1130.5	1139.9	1137.9	1143.2	1134.2
16°	1037.6	1048.3	1047.9	1049.1	1040.5
17°	950.9	957.0	957.4	956.2	945.6
18°	858.4	867.0	867.0	865.0	852.3
19°	768.0	774.5	779.0	774.5	759.8
20°	686.6	691.1	699.3	687.8	671.4
21°	608.4	612.5	619.5	606.0	588.0
22°	533.5	538.9	545.4	529.9	511.0
23°	463.6	475.9	478.3	457.0	441.1
24°	399.3	413.2	417.3	395.7	378.9
25°	342.1	357.6	367.0	341.6	324.9
26°	292.5	307.7	319.1	293.8	277.8
27°	249.2	265.1	277.0	253.3	238.1
28°	211.9	227.5	239.8	217.7	203.4
29°	184.1	193.1	205.4	187.0	173.9
30°	156.7	166.5	179.6	160.8	149.3
32.5°	107.6	112.9	123.2	111.7	102.7
35°	76.5	79.8	84.7	76.9	71.6
37.5°	54.4	56.1	58.9	54.4	51.6
40°	40.1	40.9	42.1	39.7	38.1
42.5°	29.9	30.3	30.3	29.5	28.6
45°	22.5	22.9	22.5	22.5	21.7
47.5°	16.4	17.6	17.2	17.2	16.0
50°	10.6	13.1	13.1	12.7	10.6
52.5°	6.5	9.0	10.2	9.0	7.0
55°	4.9	6.1	7.8	6.1	5.3
57.5°	4.9	4.9	5.7	4.9	4.9
60°	4.9	4.9	4.9	4.9	4.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	4.5	4.5	4.5	4.5	4.5
70°	4.5	4.5	4.1	4.5	4.5
72.5°	4.1	4.1	3.7	4.1	3.7
75°	3.3	3.3	3.3	3.3	3.3
77.5°	2.5	2.5	2.5	2.5	2.5
80°	2.0	2.0	2.0	2.0	2.0
82.5°	1.2	1.2	1.2	1.6	1.2
85°	0.8	0.8	0.8	0.8	0.8
87.5°	0.4	0.4	0.4	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	4.9	4.9	4.9	4.9	4.9
65°	4.5	4.9	4.5	4.9	4.5



(END OF REPORT)