

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: P283484

Luminaire Tested: **LDA2B058050D010 EU2B05FL408050 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283484
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: LDA2B058050D010 EU2B05FL408050 2LBAPINSQ1MW
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MW

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 732.7 lumens
Efficiency: N/A
Efficacy: 104.7 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

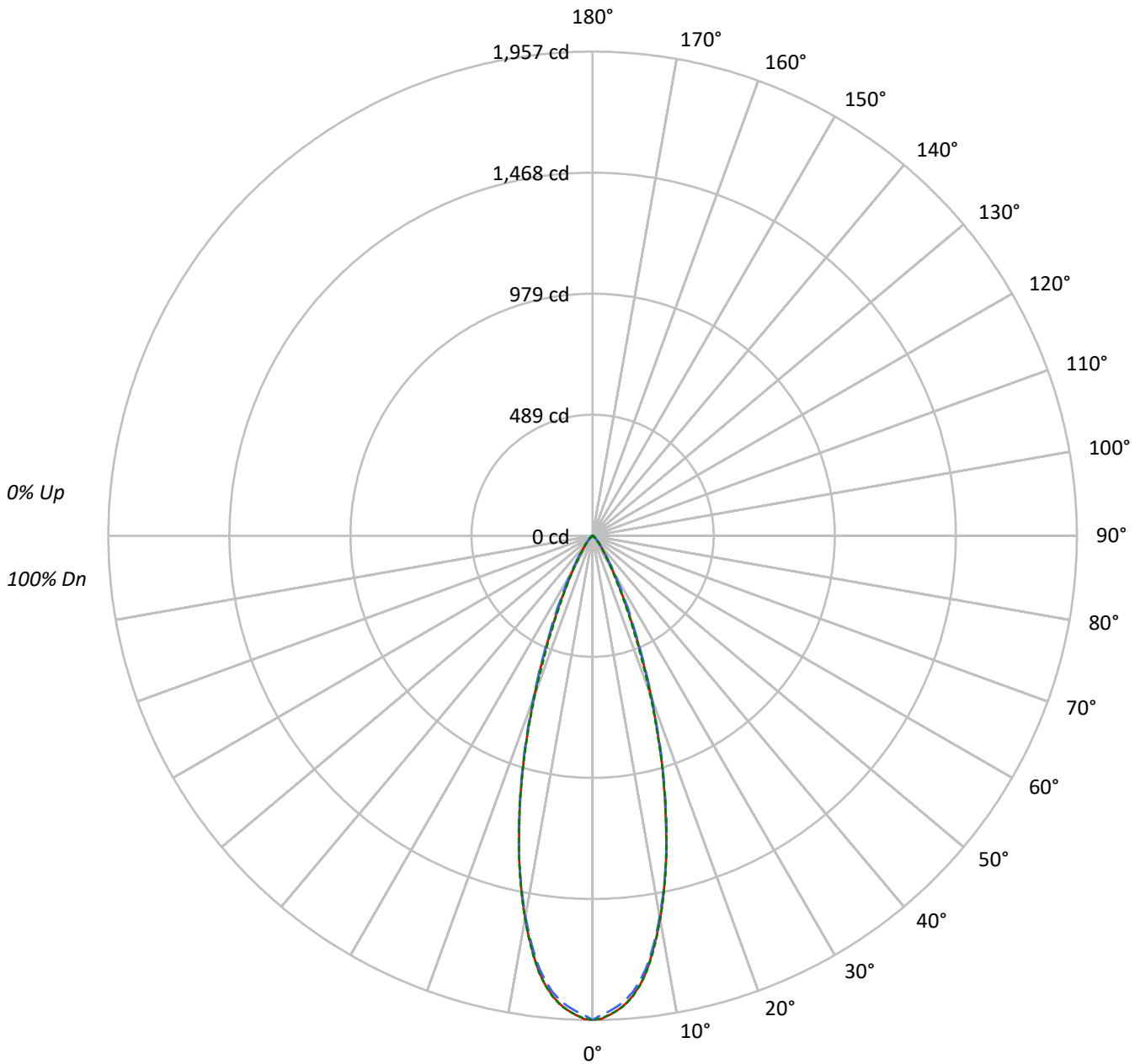
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	965460	965460	965460
5°	923932	916998	925368
10°	787128	782219	787980
15°	580179	583958	582069
20°	362162	368882	354182
25°	187098	200762	177681
30°	89725	102828	85510
35°	46316	51254	43304
40°	25955	27243	24602
45°	15768	15768	15210
50°	8213	10131	8213
55°	4215	6709	4559
60°	4835	4835	4835
65°	5253	5253	5253
70°	6491	5914	6491
75°	6290	6290	6290
80°	5966	5966	5966
85°	4529	4529	4529



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.3	23.0
10°-20°	309.2	42.2
20°-30°	167.6	22.9
30°-40°	53.8	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°	645.1	88.0
0°-40°	698.9	95.4
0°-60°	723.7	98.8
0°-90°	732.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	732.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1957	1957	1957	1957	1957	
5°	1866	1854	1852	1870	1868	169
15°	1136	1145	1143	1149	1140	308
25°	344	359	369	343	326	165
35°	77	80	85	77	72	52
45°	23	23	23	23	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°	1956.9	1956.9	1956.9	1956.9	1956.9
1°	1953.6	1939.6	1937.5	1955.6	1951.5
2°	1937.9	1924.8	1922.7	1940.8	1937.1
3°	1920.7	1908.8	1904.6	1923.6	1921.1
4°	1897.7	1886.6	1882.9	1901.8	1899.7
5°	1865.6	1854.1	1851.6	1870.1	1868.5
6°	1826.1	1816.7	1812.1	1830.6	1827.4
7°	1776.8	1768.2	1763.2	1776.8	1778.4
8°	1712.7	1708.6	1702.8	1716.4	1716.4
9°	1644.4	1640.7	1634.6	1646.9	1646.9
10°	1571.2	1568.8	1561.4	1572.9	1572.9
11°	1491.1	1489.8	1484.5	1494.0	1494.0
12°	1406.8	1409.7	1404.7	1413.0	1410.1
13°	1322.5	1321.3	1321.7	1327.9	1323.3
14°	1227.1	1234.5	1235.8	1239.5	1232.5
15°	1135.9	1145.3	1143.3	1148.6	1139.6
16°	1042.6	1053.2	1052.8	1054.1	1045.4
17°	955.4	961.6	962.0	960.8	950.1
18°	862.5	871.1	871.1	869.1	856.3
19°	771.6	778.2	782.7	778.2	763.4
20°	689.8	694.4	702.6	691.1	674.6
21°	611.3	615.4	622.4	608.8	590.8
22°	536.1	541.4	548.0	532.4	513.5
23°	465.8	478.1	480.6	459.2	443.2
24°	401.2	415.2	419.3	397.5	380.7
25°	343.7	359.3	368.8	343.3	326.4
26°	293.9	309.2	320.7	295.2	279.1
27°	250.4	266.4	278.3	254.5	239.3
28°	213.0	228.6	240.9	218.7	204.3
29°	185.0	194.0	206.4	187.9	174.7
30°	157.5	167.3	180.5	161.6	150.1
32.5°	108.1	113.5	123.7	112.2	103.2
35°	76.9	80.2	85.1	77.3	71.9
37.5°	54.7	56.3	59.2	54.7	51.8
40°	40.3	41.1	42.3	39.9	38.2
42.5°	30.0	30.4	30.4	29.6	28.8
45°	22.6	23.0	22.6	22.6	21.8
47.5°	16.4	17.7	17.3	17.3	16.0
50°	10.7	13.2	13.2	12.7	10.7
52.5°	6.6	9.0	10.3	9.0	7.0
55°	4.9	6.2	7.8	6.2	5.3
57.5°	4.9	4.9	5.8	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°	2.1	2.1	2.1	2.1	2.1
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)