

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: P283501

Luminaire Tested: **LDA2B059027D010 EU2B05FL409027 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283501
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: LDA2B059027D010 EU2B05FL409027 2LBALPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MMS

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 500.2 lumens
Efficiency: N/A
Efficacy: 71.5 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

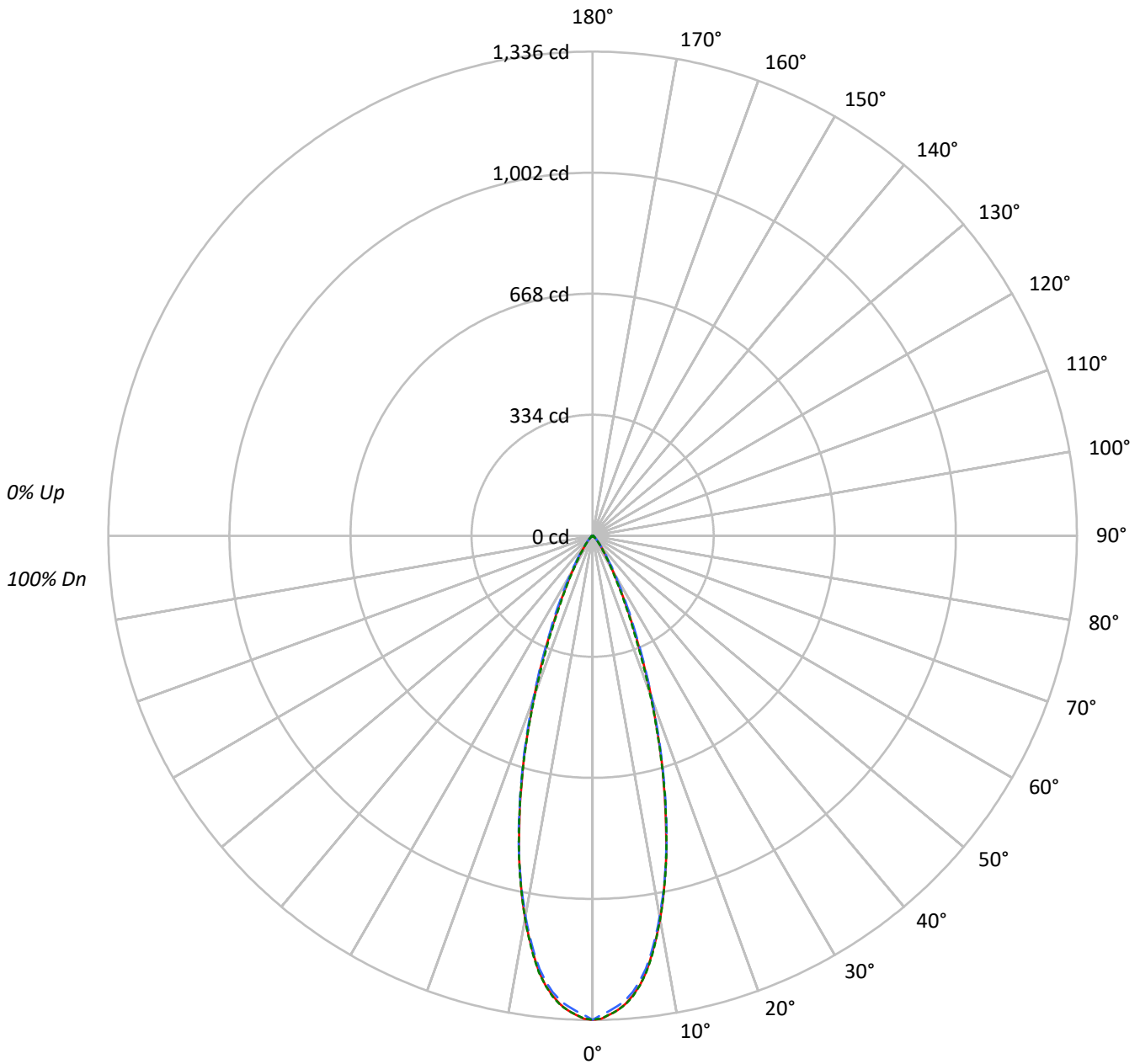
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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°	658983	658983	658983
5°	630647	625942	631637
10°	537293	533937	537844
15°	395997	398602	397325
20°	247234	251802	241774
25°	127708	137017	121284
30°	61241	70185	58336
35°	31620	34993	29572
40°	17711	18613	16809
45°	10745	10745	10396
50°	5603	6908	5603
55°	2925	4559	3097
60°	3355	3355	3355
65°	3619	3619	3619
70°	4472	4039	4472
75°	4194	4194	4194
80°	3978	3978	3978
85°	3396	3396	3396



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.9	23.0
10°-20°	211.0	42.2
20°-30°	114.4	22.9
30°-40°	36.7	7.3
40°-50°	12.5	2.5
50°-60°	4.4	0.9
60°-70°	3.2	0.6
70°-80°	2.3	0.5
80°-90°	0.7	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°	440.3	88.0
0°-40°	477.1	95.4
0°-60°	494.0	98.8
0°-90°	500.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	500.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1336	1336	1336	1336	1336	
5°	1273	1266	1264	1276	1275	115
15°	775	782	780	784	778	210
25°	235	245	252	234	223	112
35°	52	55	58	53	49	35
45°	15	16	15	15	15	12
55°	3	4	5	4	4	4
65°	3	3	3	3	3	3
75°	2	2	2	2	2	2
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°	1335.7	1335.7	1335.7	1335.7	1335.7
1°	1333.5	1323.9	1322.5	1334.9	1332.1
2°	1322.8	1313.8	1312.4	1324.8	1322.2
3°	1311.0	1302.9	1300.1	1313.0	1311.3
4°	1295.3	1287.7	1285.2	1298.1	1296.7
5°	1273.4	1265.6	1263.9	1276.5	1275.4
6°	1246.5	1240.0	1236.9	1249.6	1247.3
7°	1212.8	1206.9	1203.5	1212.8	1213.9
8°	1169.0	1166.2	1162.3	1171.6	1171.6
9°	1122.4	1119.9	1115.7	1124.1	1124.1
10°	1072.5	1070.8	1065.8	1073.6	1073.6
11°	1017.8	1016.9	1013.3	1019.7	1019.7
12°	960.3	962.2	958.8	964.5	962.5
13°	902.7	901.9	902.2	906.4	903.3
14°	837.6	842.7	843.5	846.0	841.3
15°	775.3	781.8	780.4	784.0	777.9
16°	711.6	718.9	718.6	719.5	713.6
17°	652.1	656.3	656.6	655.8	648.5
18°	588.7	594.6	594.6	593.2	584.5
19°	526.7	531.2	534.3	531.2	521.1
20°	470.9	474.0	479.6	471.7	460.5
21°	417.3	420.1	424.8	415.6	403.2
22°	365.9	369.6	374.1	363.4	350.5
23°	317.9	326.4	328.0	313.4	302.5
24°	273.9	283.4	286.2	271.4	259.8
25°	234.6	245.3	251.7	234.3	222.8
26°	200.6	211.0	218.9	201.5	190.5
27°	170.9	181.8	190.0	173.7	163.3
28°	145.4	156.0	164.4	149.3	139.5
29°	126.3	132.4	140.9	128.2	119.3
30°	107.5	114.2	123.2	110.3	102.4
32.5°	73.8	77.4	84.5	76.6	70.4
35°	52.5	54.7	58.1	52.8	49.1
37.5°	37.3	38.4	40.4	37.3	35.4
40°	27.5	28.1	28.9	27.2	26.1
42.5°	20.5	20.8	20.8	20.2	19.6
45°	15.4	15.7	15.4	15.4	14.9
47.5°	11.2	12.1	11.8	11.8	10.9
50°	7.3	9.0	9.0	8.7	7.3
52.5°	4.5	6.2	7.0	6.2	4.8
55°	3.4	4.2	5.3	4.2	3.6
57.5°	3.4	3.4	3.9	3.4	3.4
60°	3.4	3.4	3.4	3.4	3.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	3.1	3.1	3.1	3.1	3.1
70°	3.1	3.1	2.8	3.1	3.1
72.5°	2.8	2.8	2.5	2.8	2.5
75°	2.2	2.2	2.2	2.2	2.2
77.5°	1.7	1.7	1.7	1.7	1.7
80°	1.4	1.4	1.4	1.4	1.4
82.5°	0.8	0.8	0.8	1.1	0.8
85°	0.6	0.6	0.6	0.6	0.6
87.5°	0.3	0.3	0.3	0.3	0.3
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	3.4	3.4	3.4	3.4	3.4
65°	3.1	3.4	3.1	3.4	3.1



(END OF REPORT)