

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: P283535

Luminaire Tested: **LDA2B059730D010 EU2B05FL409730 2LBALPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283535
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: LDA2B059730D010 EU2B05FL409730 2LBALPINSQ1MW
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MW

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 489.7 lumens
Efficiency: N/A
Efficacy: 70.0 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

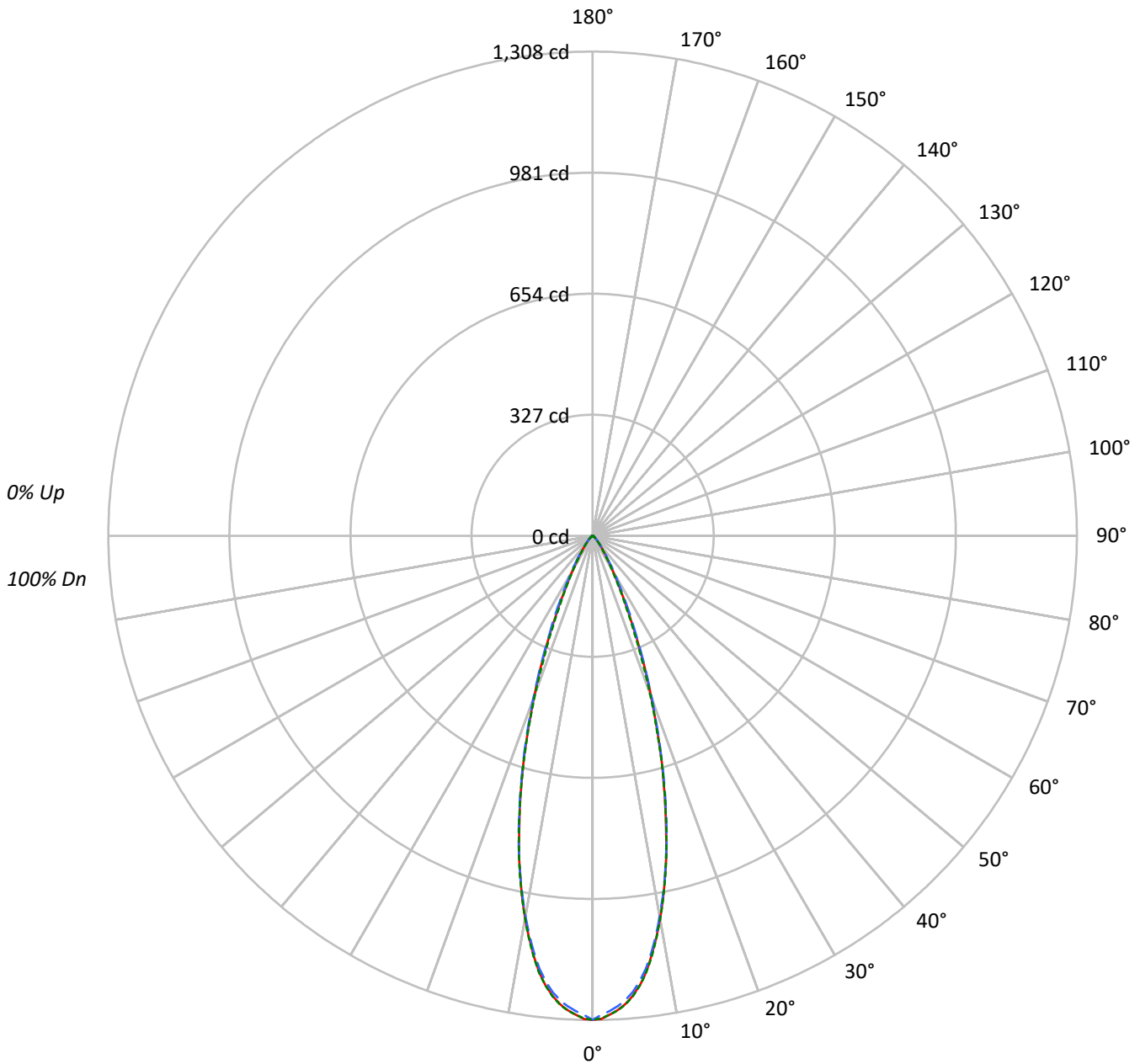
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	75	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°	645268	645268	645268
5°	617523	612867	618464
10°	526071	522815	526622
15°	387773	390276	388999
20°	242089	246552	236734
25°	125041	134186	118780
30°	59931	68704	57139
35°	30957	34270	28970
40°	17325	18226	16487
45°	10536	10536	10187
50°	5449	6754	5449
55°	2838	4473	3097
60°	3256	3256	3256
65°	3502	3502	3502
70°	4327	3895	4327
75°	4194	4194	4194
80°	3978	3978	3978
85°	2830	2830	2830



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.5	23.0
10°-20°	206.6	42.2
20°-30°	112.0	22.9
30°-40°	36.0	7.3
40°-50°	12.3	2.5
50°-60°	4.3	0.9
60°-70°	3.1	0.6
70°-80°	2.3	0.5
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°	431.2	88.0
0°-40°	467.1	95.4
0°-60°	483.7	98.8
0°-90°	489.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	489.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1308	1308	1308	1308	1308	
5°	1247	1239	1238	1250	1249	113
15°	759	766	764	768	762	206
25°	230	240	246	229	218	110
35°	51	54	57	52	48	35
45°	15	15	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°	0	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°	1307.9	1307.9	1307.9	1307.9	1307.9
1°	1305.7	1296.3	1295.0	1307.1	1304.3
2°	1295.2	1286.4	1285.1	1297.2	1294.7
3°	1283.7	1275.7	1273.0	1285.6	1284.0
4°	1268.3	1260.9	1258.4	1271.1	1269.7
5°	1246.9	1239.2	1237.5	1249.9	1248.8
6°	1220.5	1214.2	1211.2	1223.5	1221.3
7°	1187.5	1181.8	1178.5	1187.5	1188.6
8°	1144.7	1141.9	1138.1	1147.1	1147.1
9°	1099.1	1096.6	1092.5	1100.7	1100.7
10°	1050.1	1048.5	1043.6	1051.2	1051.2
11°	996.6	995.7	992.2	998.5	998.5
12°	940.2	942.2	938.9	944.4	942.4
13°	883.9	883.1	883.4	887.5	884.5
14°	820.2	825.1	825.9	828.4	823.7
15°	759.2	765.5	764.1	767.7	761.6
16°	696.8	703.9	703.7	704.5	698.7
17°	638.6	642.7	642.9	642.1	635.0
18°	576.5	582.2	582.2	580.9	572.3
19°	515.7	520.1	523.2	520.1	510.2
20°	461.1	464.1	469.6	461.9	450.9
21°	408.6	411.3	416.0	406.9	394.8
22°	358.3	361.9	366.3	355.8	343.2
23°	311.3	319.6	321.2	306.9	296.2
24°	268.2	277.5	280.3	265.7	254.4
25°	229.7	240.1	246.5	229.4	218.2
26°	196.5	206.6	214.3	197.3	186.6
27°	167.3	178.0	186.0	170.1	159.9
28°	142.3	152.8	161.0	146.2	136.6
29°	123.6	129.7	137.9	125.6	116.8
30°	105.2	111.8	120.6	108.0	100.3
32.5°	72.3	75.8	82.7	75.0	69.0
35°	51.4	53.6	56.9	51.7	48.1
37.5°	36.5	37.6	39.6	36.5	34.6
40°	26.9	27.5	28.3	26.7	25.6
42.5°	20.1	20.3	20.3	19.8	19.2
45°	15.1	15.4	15.1	15.1	14.6
47.5°	11.0	11.8	11.5	11.5	10.7
50°	7.1	8.8	8.8	8.5	7.1
52.5°	4.4	6.0	6.9	6.0	4.7
55°	3.3	4.1	5.2	4.1	3.6
57.5°	3.3	3.3	3.8	3.3	3.3
60°	3.3	3.3	3.3	3.3	3.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	3.0	3.0	3.0	3.0	3.0
70°	3.0	3.0	2.7	3.0	3.0
72.5°	2.7	2.7	2.5	2.7	2.5
75°	2.2	2.2	2.2	2.2	2.2
77.5°	1.6	1.6	1.6	1.6	1.6
80°	1.4	1.4	1.4	1.4	1.4
82.5°	0.8	0.8	0.8	1.1	0.8
85°	0.5	0.5	0.5	0.5	0.5
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°	3.3	3.3	3.3	3.3	3.3
65°	3.0	3.3	3.0	3.3	3.0



(END OF REPORT)