

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: P283530

Luminaire Tested: **LDA2B059727D010 EU2B05FL409727 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283530
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: LDA2B059727D010 EU2B05FL409727 2LBALPINSQ1MB
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MB

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 443.2 lumens
Efficiency: N/A
Efficacy: 63.3 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

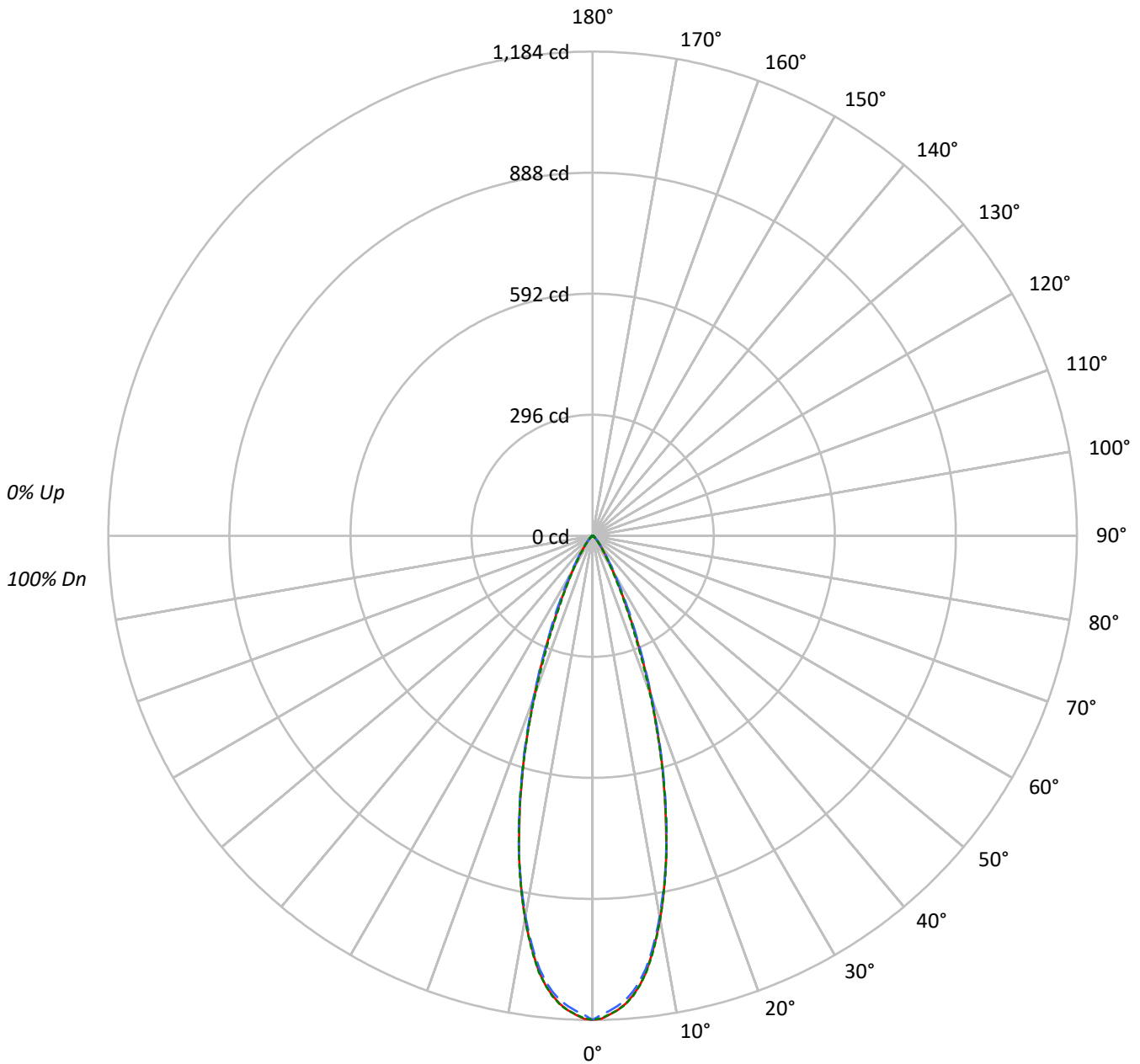
Input Watts (W): 7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					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	75	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°	583943	583943	583943
5°	558836	554626	559678
10°	476074	473119	476575
15°	350896	353194	352071
20°	219040	223083	214210
25°	113173	121393	107458
30°	54234	62210	51727
35°	28006	31018	26199
40°	15715	16487	14877
45°	9559	9559	9210
50°	4989	6140	4989
55°	2580	4043	2752
60°	2960	2960	2960
65°	3152	3152	3152
70°	3895	3606	3895
75°	3812	3812	3812
80°	3409	3409	3409
85°	2830	2830	2830



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.8	23.0
10°-20°	187.0	42.2
20°-30°	101.4	22.9
30°-40°	32.5	7.3
40°-50°	11.1	2.5
50°-60°	3.9	0.9
60°-70°	2.8	0.6
70°-80°	2.1	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°	390.2	88.0
0°-40°	422.7	95.4
0°-60°	437.7	98.8
0°-90°	443.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	443.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1184	1184	1184	1184	1184	
5°	1128	1121	1120	1131	1130	102
15°	687	693	692	695	689	186
25°	208	217	223	208	197	100
35°	46	48	52	47	44	31
45°	14	14	14	14	13	11
55°	3	4	5	4	3	3
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°	1183.6	1183.6	1183.6	1183.6	1183.6
1°	1181.6	1173.1	1171.9	1182.8	1180.3
2°	1172.1	1164.2	1162.9	1173.9	1171.6
3°	1161.7	1154.5	1152.0	1163.4	1161.9
4°	1147.8	1141.1	1138.8	1150.3	1149.0
5°	1128.4	1121.4	1119.9	1131.1	1130.1
6°	1104.5	1098.8	1096.0	1107.2	1105.2
7°	1074.7	1069.4	1066.5	1074.7	1075.7
8°	1035.9	1033.4	1029.9	1038.1	1038.1
9°	994.6	992.4	988.6	996.1	996.1
10°	950.3	948.8	944.4	951.3	951.3
11°	901.9	901.1	897.9	903.6	903.6
12°	850.9	852.6	849.6	854.6	852.9
13°	799.9	799.2	799.4	803.1	800.4
14°	742.2	746.7	747.4	749.7	745.5
15°	687.0	692.7	691.5	694.7	689.3
16°	630.6	637.0	636.8	637.5	632.3
17°	577.9	581.6	581.8	581.1	574.6
18°	521.7	526.9	526.9	525.6	517.9
19°	466.7	470.7	473.4	470.7	461.7
20°	417.2	420.0	424.9	418.0	408.0
21°	369.7	372.2	376.5	368.3	357.3
22°	324.2	327.5	331.5	322.0	310.6
23°	281.7	289.2	290.7	277.7	268.0
24°	242.7	251.1	253.6	240.4	230.2
25°	207.9	217.3	223.0	207.6	197.4
26°	177.8	187.0	193.9	178.5	168.8
27°	151.4	161.1	168.3	153.9	144.7
28°	128.8	138.2	145.7	132.3	123.6
29°	111.9	117.4	124.8	113.6	105.7
30°	95.2	101.2	109.2	97.7	90.8
32.5°	65.4	68.6	74.8	67.9	62.4
35°	46.5	48.5	51.5	46.7	43.5
37.5°	33.1	34.1	35.8	33.1	31.3
40°	24.4	24.9	25.6	24.1	23.1
42.5°	18.2	18.4	18.4	17.9	17.4
45°	13.7	13.9	13.7	13.7	13.2
47.5°	9.9	10.7	10.4	10.4	9.7
50°	6.5	8.0	8.0	7.7	6.5
52.5°	4.0	5.5	6.2	5.5	4.2
55°	3.0	3.7	4.7	3.7	3.2
57.5°	3.0	3.0	3.5	3.0	3.0
60°	3.0	3.0	3.0	3.0	3.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	2.7	2.7	2.7	2.7	2.7
70°	2.7	2.7	2.5	2.7	2.7
72.5°	2.5	2.5	2.2	2.5	2.2
75°	2.0	2.0	2.0	2.0	2.0
77.5°	1.5	1.5	1.5	1.5	1.5
80°	1.2	1.2	1.2	1.2	1.2
82.5°	0.7	0.7	0.7	1.0	0.7
85°	0.5	0.5	0.5	0.5	0.5
87.5°	0.2	0.2	0.2	0.2	0.2
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	3.0	3.0	3.0	3.0	3.0
65°	2.7	3.0	2.7	3.0	2.7



(END OF REPORT)