

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: P283861

Luminaire Tested: **LDA2B059050D010 EU2B05WFL559050 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283861
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-61)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B059050D010 EU2B05WFL559050 2LBALPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MMS

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 591.2 lumens
Efficiency: N/A
Efficacy: 84.5 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.68
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

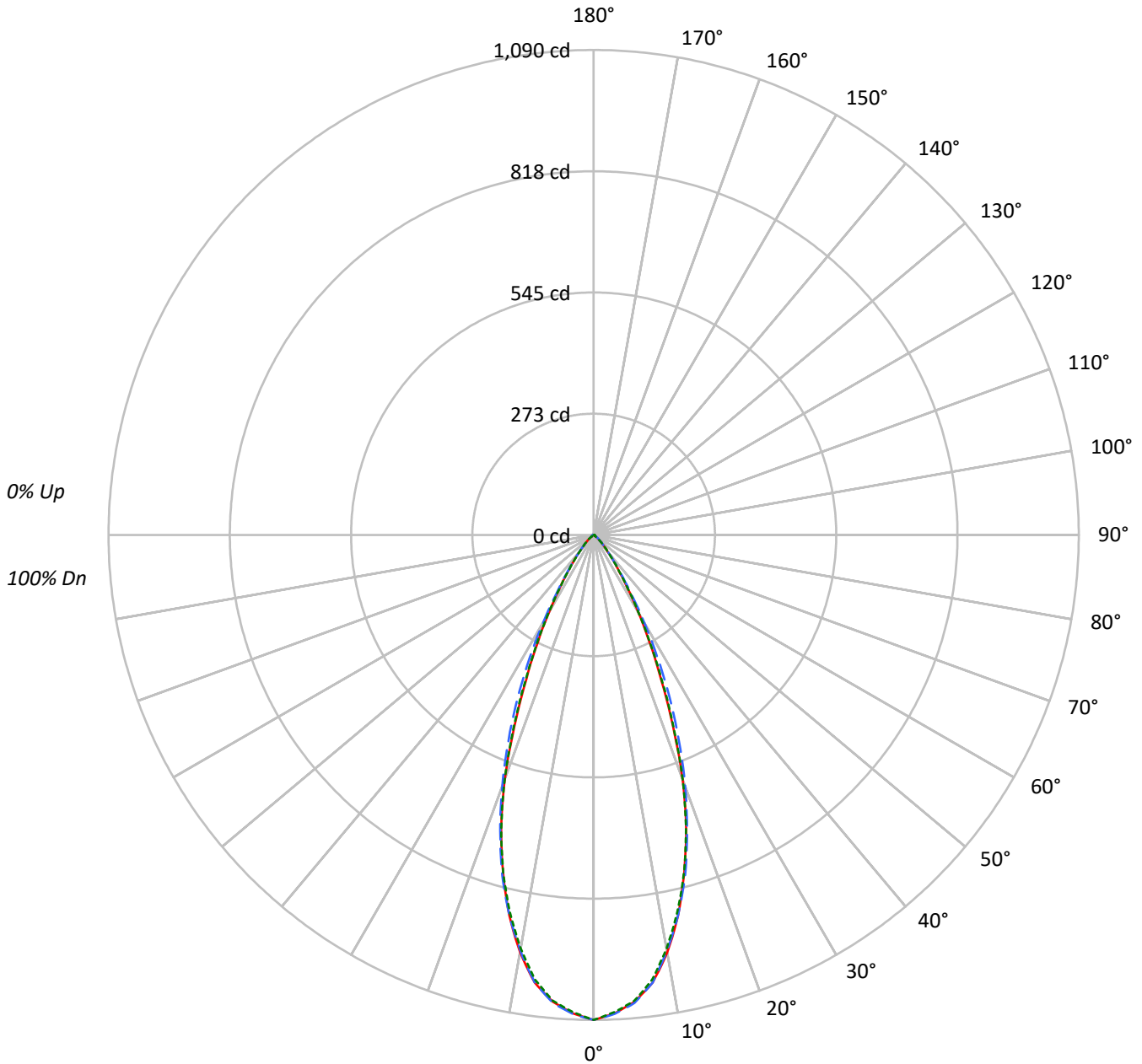
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94																			
2	109	104	101	98	107	103	99	96	100	97	94	97	94	92	94	92	90	89																			
3	104	98	94	90	102	97	93	89	94	91	88	92	89	87	90	87	85	84																			
4	100	93	88	84	98	92	87	83	90	86	82	88	84	81	86	83	81	79																			
5	95	88	82	79	94	87	82	78	85	81	78	84	80	77	82	79	76	75																			
6	91	83	78	74	90	82	77	74	81	77	73	80	76	73	78	75	72	71																			
7	87	79	74	70	86	78	73	70	77	73	69	76	72	69	75	71	69	67																			
8	84	75	70	66	83	75	70	66	74	69	66	73	69	66	72	68	65	64																			
9	81	72	67	63	80	71	66	63	71	66	63	70	66	63	69	65	62	61																			
10	77	69	64	60	76	68	63	60	68	63	60	67	63	60	66	62	60	58																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	537764	537764	537764
5°	521593	522832	520504
10°	477427	475523	472668
15°	401564	405293	400951
20°	307087	315277	306614
25°	194991	219869	198802
30°	113424	128065	115418
35°	59927	63782	60168
40°	31622	33104	31622
45°	17722	18350	17931
50°	8289	10438	8289
55°	3011	5763	3269
60°	3454	3454	3454
65°	3736	4086	3736
70°	4616	4183	4616
75°	4194	4194	4194
80°	4546	3694	4546
85°	3396	3396	3396



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.3	16.5
10°-20°	216.6	36.6
20°-30°	175.0	29.6
30°-40°	69.1	11.7
40°-50°	21.2	3.6
50°-60°	5.5	0.9
60°-70°	3.3	0.6
70°-80°	2.4	0.4
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°	488.9	82.7
0°-40°	558.0	94.4
0°-60°	584.7	98.9
0°-90°	591.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	591.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1090	1090	1090	1090	1090	
5°	1053	1055	1056	1054	1051	97
15°	786	788	794	790	785	216
25°	358	375	404	382	365	167
35°	100	102	106	103	100	67
45°	25	26	26	26	26	21
55°	4	5	7	5	4	4
65°	3	4	4	4	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°	1090.0	1090.0	1090.0	1090.0	1090.0
2.5°	1076.3	1077.0	1077.9	1076.7	1073.5
5°	1053.2	1055.1	1055.7	1053.5	1051.0
7.5°	1015.1	1012.9	1014.8	1011.0	1007.9
10°	953.0	950.2	949.2	943.5	943.5
12.5°	876.3	875.3	876.0	873.1	868.7
15°	786.2	788.5	793.5	790.4	785.0
17.5°	690.8	694.0	698.4	697.5	690.2
20°	584.9	594.1	600.5	594.4	584.0
22.5°	464.5	484.1	500.3	487.6	470.5
25°	358.2	375.4	403.9	382.3	365.2
27.5°	271.7	284.1	310.1	288.8	277.1
30°	199.1	206.7	224.8	210.8	202.6
32.5°	142.3	147.7	155.3	147.1	143.0
35°	99.5	102.4	105.9	102.7	99.9
37.5°	70.1	71.0	73.6	71.0	69.7
40°	49.1	49.5	51.4	49.8	49.1
42.5°	35.5	35.5	36.5	35.8	35.5
45°	25.4	25.7	26.3	26.0	25.7
47.5°	18.1	18.7	18.7	19.0	17.8
50°	10.8	13.3	13.6	13.3	10.8
52.5°	5.7	7.9	9.8	7.9	5.7
55°	3.5	4.8	6.7	4.8	3.8
57.5°	3.5	3.5	4.4	3.8	3.5
60°	3.5	3.5	3.5	3.5	3.5
62.5°	3.5	3.5	3.5	3.5	3.5
65°	3.2	3.5	3.5	3.5	3.2
67.5°	3.2	3.2	3.2	3.2	3.2
70°	3.2	3.2	2.9	3.2	3.2
72.5°	2.9	2.9	2.5	2.9	2.9
75°	2.2	2.2	2.2	2.2	2.2
77.5°	1.9	1.9	1.9	1.9	1.9
80°	1.6	1.6	1.3	1.6	1.6
82.5°	1.0	1.0	1.0	1.0	1.0
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°







(END OF REPORT)