

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: P283837

Luminaire Tested: **LDA2B059027D010 EU2B05WFL559027 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283837
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: LDA2B059027D010 EU2B05WFL559027 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: 520.3 lumens
Efficiency: N/A
Efficacy: 74.3 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

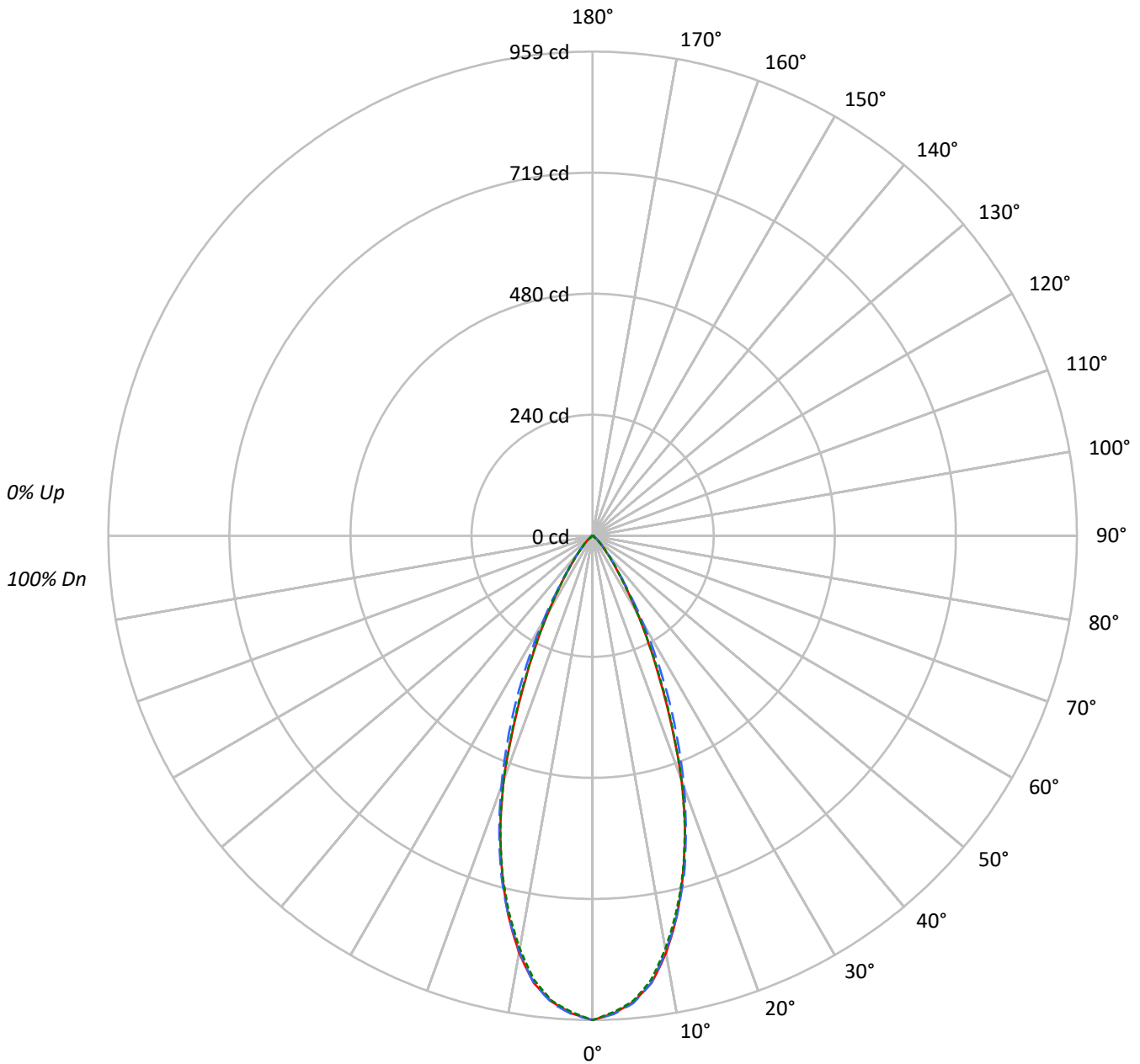
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	83	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°	473183	473183	473183
5°	458994	460084	458004
10°	420116	418462	415908
15°	353399	356668	352837
20°	270230	277423	269810
25°	171584	193467	174959
30°	99809	112684	101575
35°	52760	56133	52941
40°	27822	29111	27822
45°	15559	16187	15768
50°	7292	9210	7292
55°	2666	5075	2838
60°	3059	3059	3059
65°	3269	3619	3269
70°	4039	3606	4039
75°	3812	3812	3812
80°	3978	3125	3978
85°	3396	3396	3396



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.6	16.5
10°-20°	190.6	36.6
20°-30°	154.0	29.6
30°-40°	60.8	11.7
40°-50°	18.7	3.6
50°-60°	4.8	0.9
60°-70°	2.9	0.6
70°-80°	2.1	0.4
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°	430.2	82.7
0°-40°	491.0	94.4
0°-60°	514.5	98.9
0°-90°	520.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	520.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	959	959	959	959	959	
5°	927	928	929	927	925	86
15°	692	694	698	696	691	190
25°	315	330	355	336	321	147
35°	88	90	93	90	88	59
45°	22	23	23	23	23	18
55°	3	4	6	4	3	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°	959.1	959.1	959.1	959.1	959.1
2.5°	947.1	947.7	948.5	947.4	944.6
5°	926.8	928.4	929.0	927.1	924.8
7.5°	893.3	891.3	893.0	889.7	886.9
10°	838.6	836.1	835.3	830.2	830.2
12.5°	771.1	770.3	770.8	768.3	764.4
15°	691.9	693.8	698.3	695.5	690.8
17.5°	607.9	610.7	614.6	613.8	607.3
20°	514.7	522.8	528.4	523.1	513.9
22.5°	408.7	426.0	440.2	429.1	414.0
25°	315.2	330.3	355.4	336.5	321.4
27.5°	239.1	250.0	272.8	254.2	243.8
30°	175.2	181.9	197.8	185.5	178.3
32.5°	125.3	130.0	136.7	129.4	125.8
35°	87.6	90.1	93.2	90.4	87.9
37.5°	61.7	62.5	64.7	62.5	61.4
40°	43.2	43.5	45.2	43.8	43.2
42.5°	31.2	31.2	32.1	31.5	31.2
45°	22.3	22.6	23.2	22.9	22.6
47.5°	15.9	16.5	16.5	16.7	15.6
50°	9.5	11.7	12.0	11.7	9.5
52.5°	5.0	7.0	8.6	7.0	5.0
55°	3.1	4.2	5.9	4.2	3.3
57.5°	3.1	3.1	3.9	3.3	3.1
60°	3.1	3.1	3.1	3.1	3.1
62.5°	3.1	3.1	3.1	3.1	3.1
65°	2.8	3.1	3.1	3.1	2.8
67.5°	2.8	2.8	2.8	2.8	2.8
70°	2.8	2.8	2.5	2.8	2.8
72.5°	2.5	2.5	2.2	2.5	2.5
75°	2.0	2.0	2.0	2.0	2.0
77.5°	1.7	1.7	1.7	1.7	1.7
80°	1.4	1.4	1.1	1.4	1.4
82.5°	0.8	0.8	0.8	0.8	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°







(END OF REPORT)