

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: P283835

Luminaire Tested: **LDA2B059027D010 EU2B05WFL559027 2LBALPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283835
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 2LBALPINSQ1MW
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in Adj SQ Pinhole w-lens, MW

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 531.5 lumens
Efficiency: N/A
Efficacy: 75.9 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

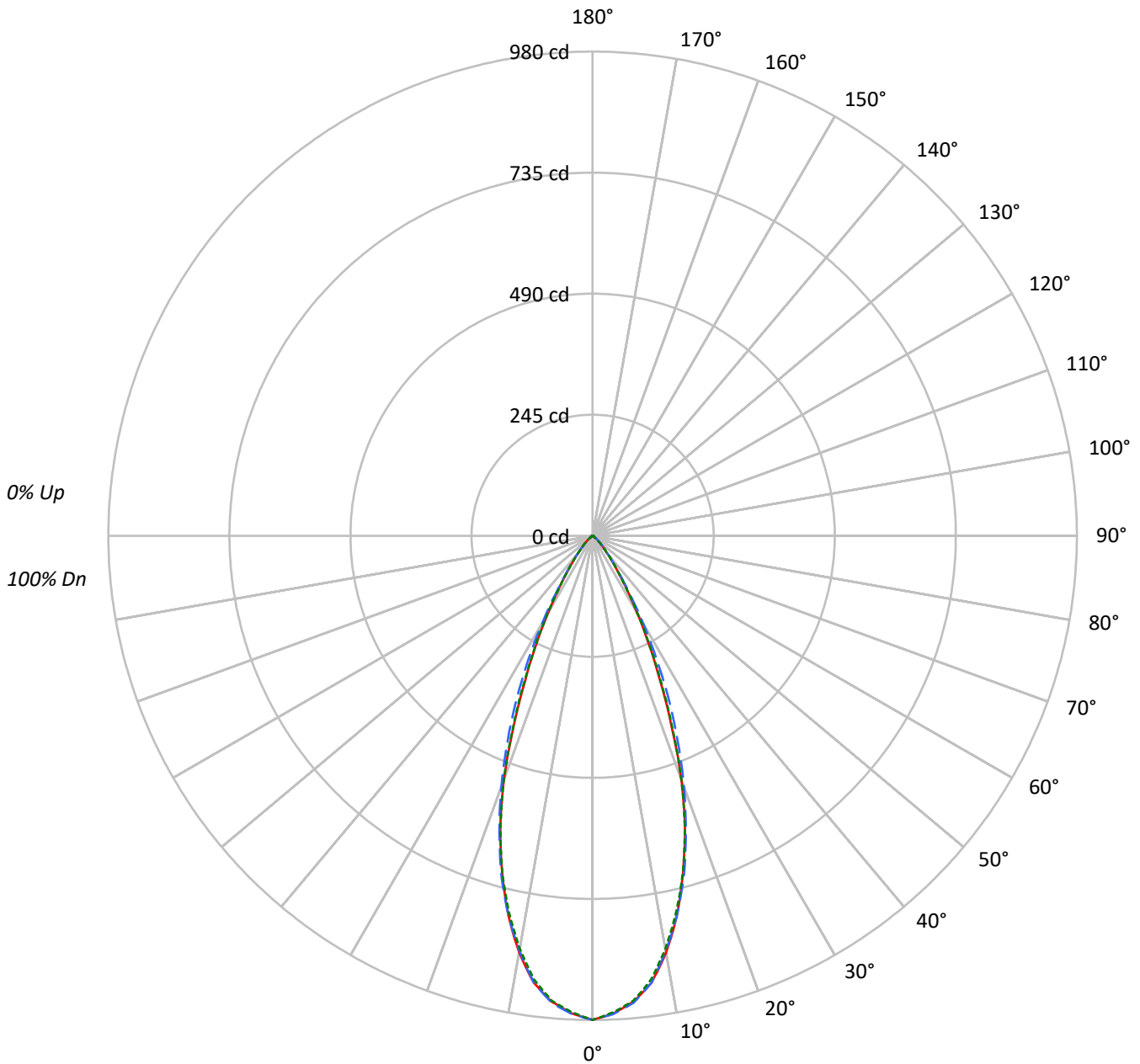
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	483445	483445	483445
5°	468899	470038	467909
10°	429233	427480	424925
15°	361009	364380	360447
20°	276110	283408	275638
25°	175340	197659	178715
30°	101974	115133	103740
35°	53904	57337	54085
40°	28466	29755	28466
45°	15908	16536	16117
50°	7445	9441	7445
55°	2666	5161	2925
60°	3059	3059	3059
65°	3385	3619	3385
70°	4183	3750	4183
75°	3812	3812	3812
80°	3978	3125	3978
85°	3396	3396	3396



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.5	16.5
10°-20°	194.8	36.6
20°-30°	157.3	29.6
30°-40°	62.2	11.7
40°-50°	19.1	3.6
50°-60°	4.9	0.9
60°-70°	3.0	0.6
70°-80°	2.2	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°	439.5	82.7
0°-40°	501.7	94.4
0°-60°	525.7	98.9
0°-90°	531.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	531.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	980	980	980	980	980	
5°	947	948	949	947	945	88
15°	707	709	713	710	706	194
25°	322	338	363	344	328	150
35°	90	92	95	92	90	60
45°	23	23	24	23	23	19
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°	979.9	979.9	979.9	979.9	979.9
2.5°	967.6	968.2	969.0	967.9	965.1
5°	946.8	948.5	949.1	947.1	944.8
7.5°	912.6	910.6	912.3	908.9	906.1
10°	856.8	854.2	853.3	848.2	848.2
12.5°	787.8	786.9	787.5	784.9	780.9
15°	706.8	708.8	713.4	710.5	705.7
17.5°	621.0	623.9	627.9	627.0	620.5
20°	525.9	534.1	539.8	534.4	525.0
22.5°	417.5	435.2	449.8	438.4	423.0
25°	322.1	337.5	363.1	343.7	328.3
27.5°	244.3	255.4	278.7	259.6	249.1
30°	179.0	185.8	202.1	189.5	182.1
32.5°	128.0	132.8	139.7	132.2	128.5
35°	89.5	92.1	95.2	92.3	89.8
37.5°	63.0	63.8	66.1	63.8	62.7
40°	44.2	44.5	46.2	44.7	44.2
42.5°	31.9	31.9	32.8	32.2	31.9
45°	22.8	23.1	23.7	23.4	23.1
47.5°	16.2	16.8	16.8	17.1	16.0
50°	9.7	12.0	12.3	12.0	9.7
52.5°	5.1	7.1	8.8	7.1	5.1
55°	3.1	4.3	6.0	4.3	3.4
57.5°	3.1	3.1	4.0	3.4	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°	2.9	3.1	3.1	3.1	2.9
67.5°	2.9	2.9	2.9	2.9	2.9
70°	2.9	2.9	2.6	2.9	2.9
72.5°	2.6	2.6	2.3	2.6	2.6
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°	0.9	0.9	0.9	0.9	0.9
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)