

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P835660

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-2LO-40-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835660
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-24-2-INS-OPL-LD4-2LO-40-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

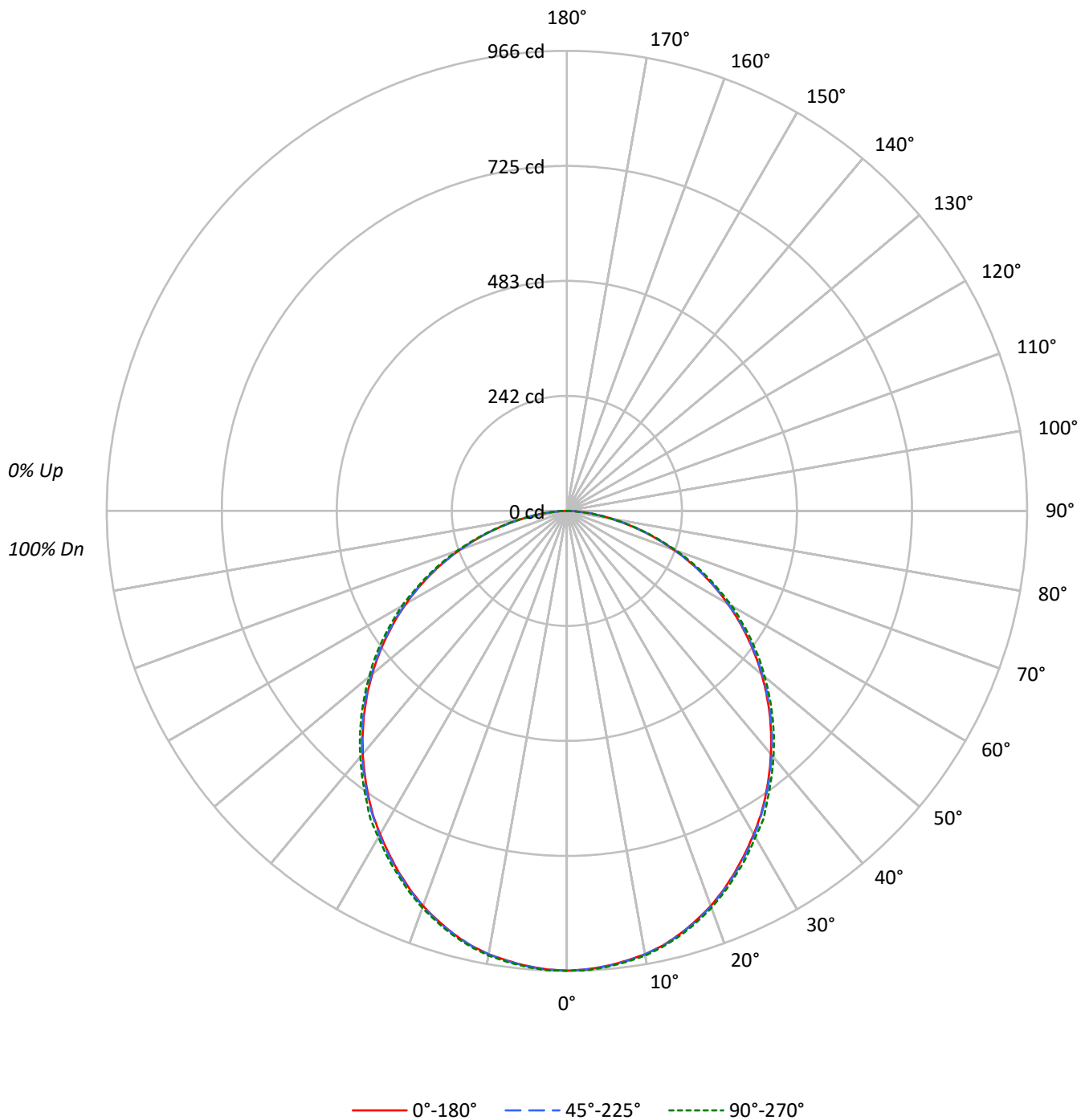
Lumens per Lamp: N/A
Luminaire Lumens: 2608.5 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
Input Voltage (V): 120
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: 28.75 FT

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Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	84		
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	76	72	70		
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59		
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51		
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46	44		
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38		
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	34		
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30		
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27		
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2598	2598	2598
5°	2591	2593	2596
10°	2583	2583	2591
15°	2561	2563	2570
20°	2528	2531	2540
25°	2483	2488	2499
30°	2436	2444	2459
35°	2391	2397	2416
40°	2341	2349	2370
45°	2289	2299	2323
50°	2234	2244	2270
55°	2171	2181	2217
60°	2098	2107	2154
65°	2007	2013	2052
70°	1884	1885	1926
75°	1712	1706	1746
80°	1471	1464	1489
85°	1142	1124	1130

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.2	3.5
10°-20°	259.5	9.9
20°-30°	386.3	14.8
30°-40°	456.8	17.5
40°-50°	466.4	17.9
50°-60°	416.2	16.0
60°-70°	313.5	12.0
70°-80°	174.8	6.7
80°-90°	43.8	1.7
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°	737.0	28.3
0°-40°	1193.8	45.8
0°-60°	2076.4	79.6
0°-90°	2608.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2608.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	965	965	965	965	965	
5°	959	961	960	960	961	91
15°	919	920	920	921	923	259
25°	836	837	838	840	842	385
35°	728	727	730	732	736	455
45°	602	601	604	607	610	464
55°	463	462	465	468	472	414
65°	315	314	316	319	322	312
75°	165	163	164	165	168	175
85°	37	36	36	36	37	44
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	965.4	965.4	965.4	965.4	965.4
2.5°	963.8	965.4	963.4	963.8	965.6
5°	959.2	961.0	960.0	960.2	961.2
7.5°	952.8	955.2	953.8	954.2	955.2
10°	945.2	947.0	945.4	946.4	948.2
12.5°	934.4	935.2	934.4	934.8	936.8
15°	919.4	920.4	920.0	920.8	922.6
17.5°	901.8	903.0	902.8	904.4	905.8
20°	882.8	883.0	883.8	885.4	887.0
22.5°	860.4	861.0	861.8	864.0	865.6
25°	836.1	837.1	838.0	840.2	841.8
27.5°	810.3	811.3	812.7	815.1	817.7
30°	783.9	783.9	786.5	788.9	791.3
32.5°	757.3	756.3	758.7	761.7	767.5
35°	727.9	727.1	729.7	732.5	735.5
37.5°	697.3	696.7	699.7	702.7	705.5
40°	666.4	665.6	668.6	671.6	674.6
42.5°	634.6	634.2	637.0	640.0	643.2
45°	601.6	601.4	604.2	607.2	610.4
47.5°	568.0	567.6	570.4	573.6	576.4
50°	533.6	533.2	536.0	539.2	542.2
52.5°	498.3	498.3	500.9	503.7	508.3
55°	462.7	462.1	464.9	468.1	472.5
57.5°	426.7	425.9	428.5	431.7	435.7
60°	389.9	389.1	391.5	394.7	400.3
62.5°	352.8	351.6	354.0	357.0	360.4
65°	315.2	314.0	316.2	319.0	322.2
67.5°	277.4	276.0	278.2	280.6	283.6
70°	239.4	238.0	239.6	242.0	244.8
72.5°	201.7	200.3	201.7	202.7	206.1
75°	164.7	163.3	164.1	164.9	167.9
77.5°	128.7	127.3	128.9	129.3	131.1
80°	94.9	93.5	94.5	94.7	96.1
82.5°	64.2	63.0	64.4	63.4	64.6
85°	37.0	36.0	36.4	36.0	36.6
87.5°	14.6	13.8	14.0	13.2	13.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)