

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: P835094

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-5STD-30-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835094
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-24-4-INS-OPL-LD4-5STD-30-120-EDD-90
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

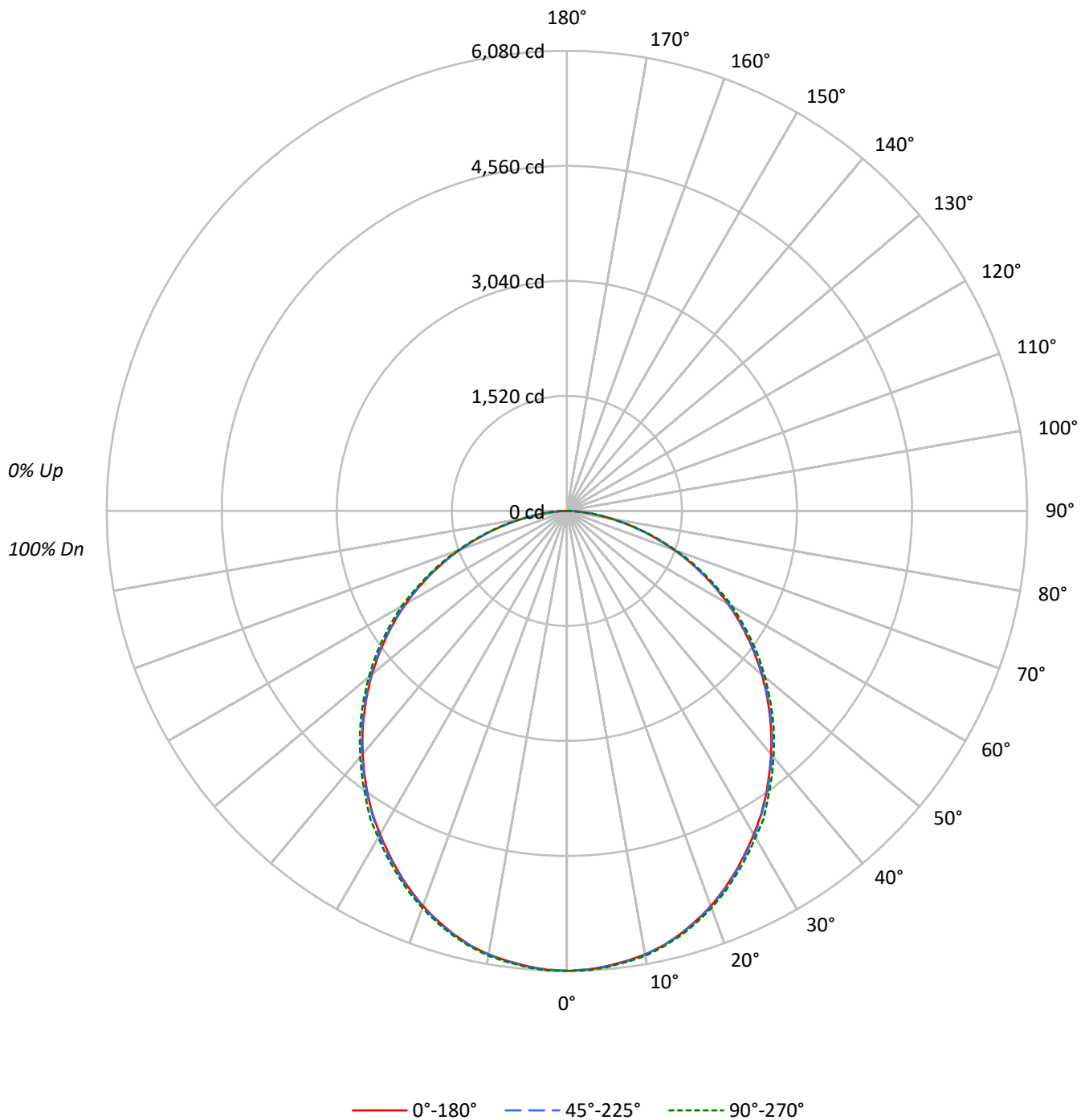
Lumens per Lamp: N/A
Luminaire Lumens: 16425.0 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 166.5
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

1121 Highway 74 South

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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°	8179	8179	8179
5°	8157	8164	8174
10°	8131	8133	8157
15°	8064	8069	8092
20°	7959	7968	7997
25°	7815	7834	7869
30°	7669	7694	7741
35°	7529	7547	7607
40°	7370	7394	7460
45°	7208	7239	7313
50°	7034	7065	7147
55°	6834	6867	6979
60°	6607	6634	6783
65°	6319	6339	6459
70°	5931	5936	6065
75°	5391	5371	5495
80°	4632	4613	4690
85°	3594	3535	3555

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	574.4	3.5
10°-20°	1633.9	9.9
20°-30°	2432.4	14.8
30°-40°	2876.5	17.5
40°-50°	2936.6	17.9
50°-60°	2620.7	16.0
60°-70°	1973.9	12.0
70°-80°	1100.8	6.7
80°-90°	275.8	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°	4640.7	28.3
0°-40°	7517.3	45.8
0°-60°	13074.5	79.6
0°-90°	16425.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16425.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6079	6079	6079	6079	6079	
5°	6040	6051	6045	6046	6052	574
15°	5789	5795	5793	5798	5809	1632
25°	5264	5271	5277	5291	5301	2425
35°	4584	4578	4595	4612	4631	2866
45°	3788	3787	3804	3823	3844	2922
55°	2913	2910	2927	2947	2975	2604
65°	1985	1977	1991	2009	2029	1963
75°	1037	1028	1033	1038	1057	1099
85°	233	226	229	226	230	279
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6078.6	6078.6	6078.6	6078.6	6078.6
2.5°	6068.5	6078.6	6066.0	6068.5	6079.8
5°	6039.6	6050.9	6044.6	6045.9	6052.1
7.5°	5999.3	6014.4	6005.6	6008.1	6014.4
10°	5951.5	5962.8	5952.7	5959.0	5970.3
12.5°	5883.5	5888.5	5883.5	5886.0	5898.6
15°	5789.1	5795.4	5792.9	5797.9	5809.3
17.5°	5678.4	5685.9	5684.7	5694.7	5703.5
20°	5558.8	5560.1	5565.1	5575.2	5585.2
22.5°	5417.9	5421.6	5426.7	5440.5	5450.6
25°	5264.3	5270.6	5276.9	5290.8	5300.8
27.5°	5102.0	5108.3	5117.1	5132.2	5148.5
30°	4935.9	4935.9	4952.2	4967.3	4982.4
32.5°	4768.5	4762.2	4777.3	4796.2	4832.7
35°	4583.5	4578.4	4594.8	4612.4	4631.3
37.5°	4390.9	4387.1	4406.0	4424.9	4442.5
40°	4195.9	4190.8	4209.7	4228.6	4247.5
42.5°	3995.8	3993.2	4010.9	4029.7	4049.9
45°	3788.1	3786.8	3804.5	3823.3	3843.5
47.5°	3576.7	3574.2	3591.8	3611.9	3629.5
50°	3360.2	3357.7	3375.3	3395.4	3414.3
52.5°	3137.5	3137.5	3153.8	3171.4	3200.4
55°	2913.4	2909.7	2927.3	2947.4	2975.1
57.5°	2686.9	2681.9	2698.2	2718.4	2743.5
60°	2455.3	2450.3	2465.4	2485.5	2520.8
62.5°	2221.3	2213.7	2228.8	2247.7	2269.1
65°	1984.7	1977.1	1991.0	2008.6	2028.7
67.5°	1746.8	1738.0	1751.8	1766.9	1785.8
70°	1507.7	1498.9	1508.9	1524.0	1541.7
72.5°	1269.8	1261.0	1269.8	1276.1	1297.5
75°	1037.0	1028.2	1033.2	1038.3	1057.1
77.5°	810.5	801.7	811.7	814.3	825.6
80°	597.8	589.0	595.3	596.5	605.3
82.5°	404.0	396.4	405.2	398.9	406.5
85°	232.8	226.5	229.0	226.5	230.3
87.5°	91.9	86.8	88.1	83.1	83.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)