

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: P835116

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-6HI-35-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835116
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-LD4-6HI-35-120-EDD-90
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

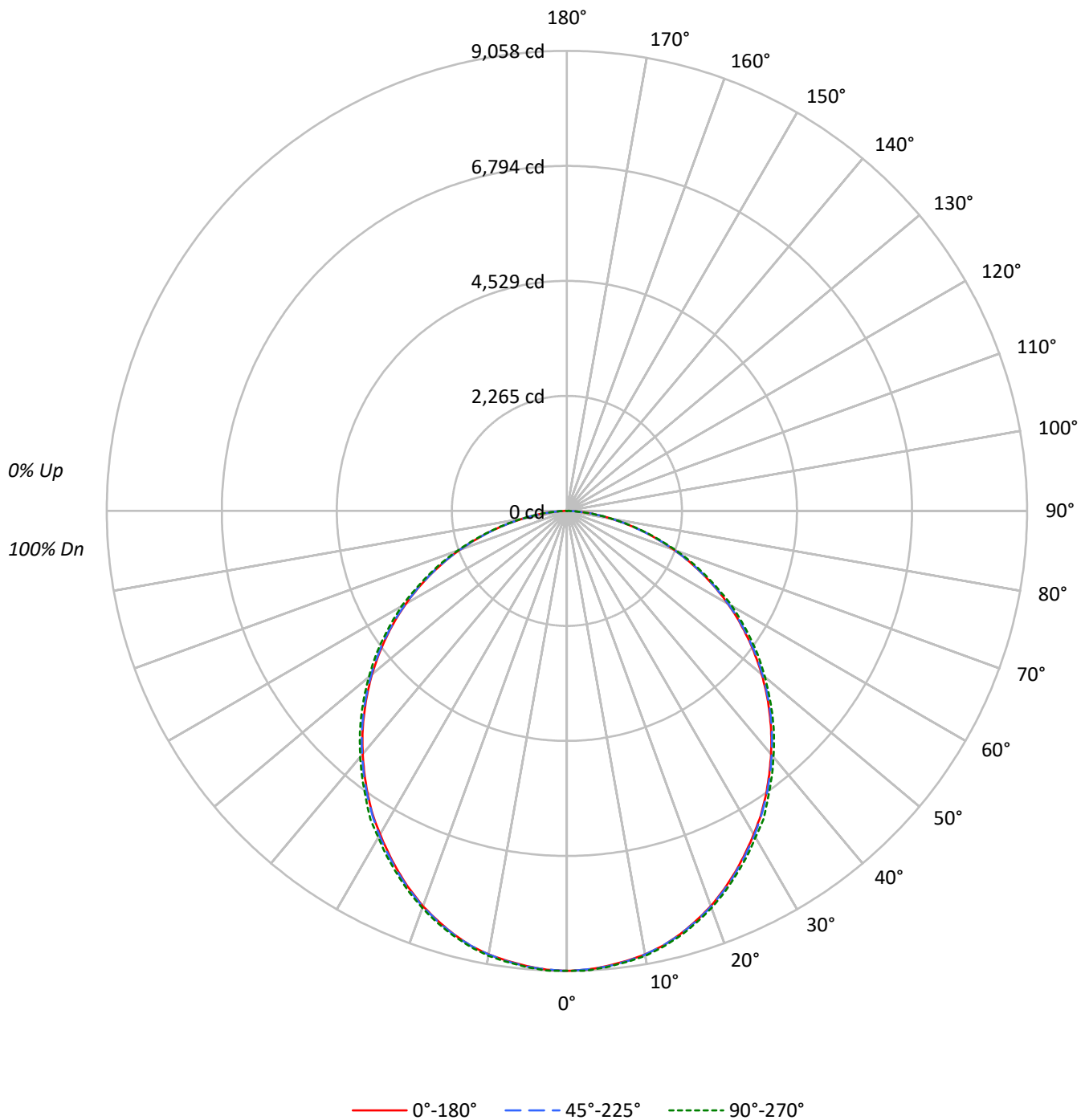
Lumens per Lamp: N/A
Luminaire Lumens: 24471.1 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 264
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	26	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12185	12185	12185
5°	12153	12163	12178
10°	12114	12117	12153
15°	12014	12022	12056
20°	11858	11872	11915
25°	11644	11672	11724
30°	11425	11463	11533
35°	11217	11244	11334
40°	10980	11016	11115
45°	10739	10785	10896
50°	10479	10526	10648
55°	10182	10231	10398
60°	9844	9884	10106
65°	9414	9444	9623
70°	8837	8844	9036
75°	8032	8003	8188
80°	6901	6872	6988
85°	5355	5269	5297

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	855.8	3.5
10°-20°	2434.3	9.9
20°-30°	3623.9	14.8
30°-40°	4285.7	17.5
40°-50°	4375.1	17.9
50°-60°	3904.5	16.0
60°-70°	2940.8	12.0
70°-80°	1640.1	6.7
80°-90°	410.9	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°	6914.0	28.3
0°-40°	11199.7	45.8
0°-60°	19479.3	79.6
0°-90°	24471.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	24471.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9056	9056	9056	9056	9056	
5°	8998	9015	9006	9008	9017	855
15°	8625	8634	8631	8638	8655	2431
25°	7843	7852	7862	7882	7898	3613
35°	6829	6821	6846	6872	6900	4270
45°	5644	5642	5668	5696	5726	4354
55°	4341	4335	4361	4391	4432	3880
65°	2957	2946	2966	2992	3022	2925
75°	1545	1532	1539	1547	1575	1638
85°	347	338	341	338	343	416
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9056.3	9056.3	9056.3	9056.3	9056.3
2.5°	9041.3	9056.3	9037.5	9041.3	9058.1
5°	8998.1	9015.0	9005.6	9007.5	9016.9
7.5°	8938.1	8960.6	8947.5	8951.3	8960.6
10°	8866.9	8883.8	8868.8	8878.1	8895.0
12.5°	8765.6	8773.1	8765.6	8769.4	8788.1
15°	8625.0	8634.4	8630.6	8638.1	8655.0
17.5°	8460.0	8471.3	8469.4	8484.4	8497.5
20°	8281.9	8283.8	8291.3	8306.3	8321.3
22.5°	8071.9	8077.5	8085.0	8105.6	8120.6
25°	7843.1	7852.5	7861.9	7882.5	7897.5
27.5°	7601.3	7610.6	7623.8	7646.3	7670.6
30°	7353.8	7353.8	7378.1	7400.6	7423.1
32.5°	7104.4	7095.0	7117.5	7145.6	7200.0
35°	6828.8	6821.3	6845.6	6871.9	6900.0
37.5°	6541.9	6536.3	6564.4	6592.5	6618.8
40°	6251.3	6243.8	6271.9	6300.0	6328.1
42.5°	5953.1	5949.4	5975.6	6003.8	6033.8
45°	5643.8	5641.9	5668.1	5696.3	5726.3
47.5°	5328.8	5325.0	5351.3	5381.3	5407.5
50°	5006.3	5002.5	5028.8	5058.8	5086.9
52.5°	4674.4	4674.4	4698.8	4725.0	4768.1
55°	4340.6	4335.0	4361.3	4391.3	4432.5
57.5°	4003.1	3995.6	4020.0	4050.0	4087.5
60°	3658.1	3650.6	3673.1	3703.1	3755.6
62.5°	3309.4	3298.1	3320.6	3348.8	3380.6
65°	2956.9	2945.6	2966.3	2992.5	3022.5
67.5°	2602.5	2589.4	2610.0	2632.5	2660.6
70°	2246.3	2233.1	2248.1	2270.6	2296.9
72.5°	1891.9	1878.8	1891.9	1901.3	1933.1
75°	1545.0	1531.9	1539.4	1546.9	1575.0
77.5°	1207.5	1194.4	1209.4	1213.1	1230.0
80°	890.6	877.5	886.9	888.8	901.9
82.5°	601.9	590.6	603.8	594.4	605.6
85°	346.9	337.5	341.3	337.5	343.1
87.5°	136.9	129.4	131.3	123.8	123.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)