

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: P834997

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-3LO-35-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834997
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-LD4-3LO-35-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

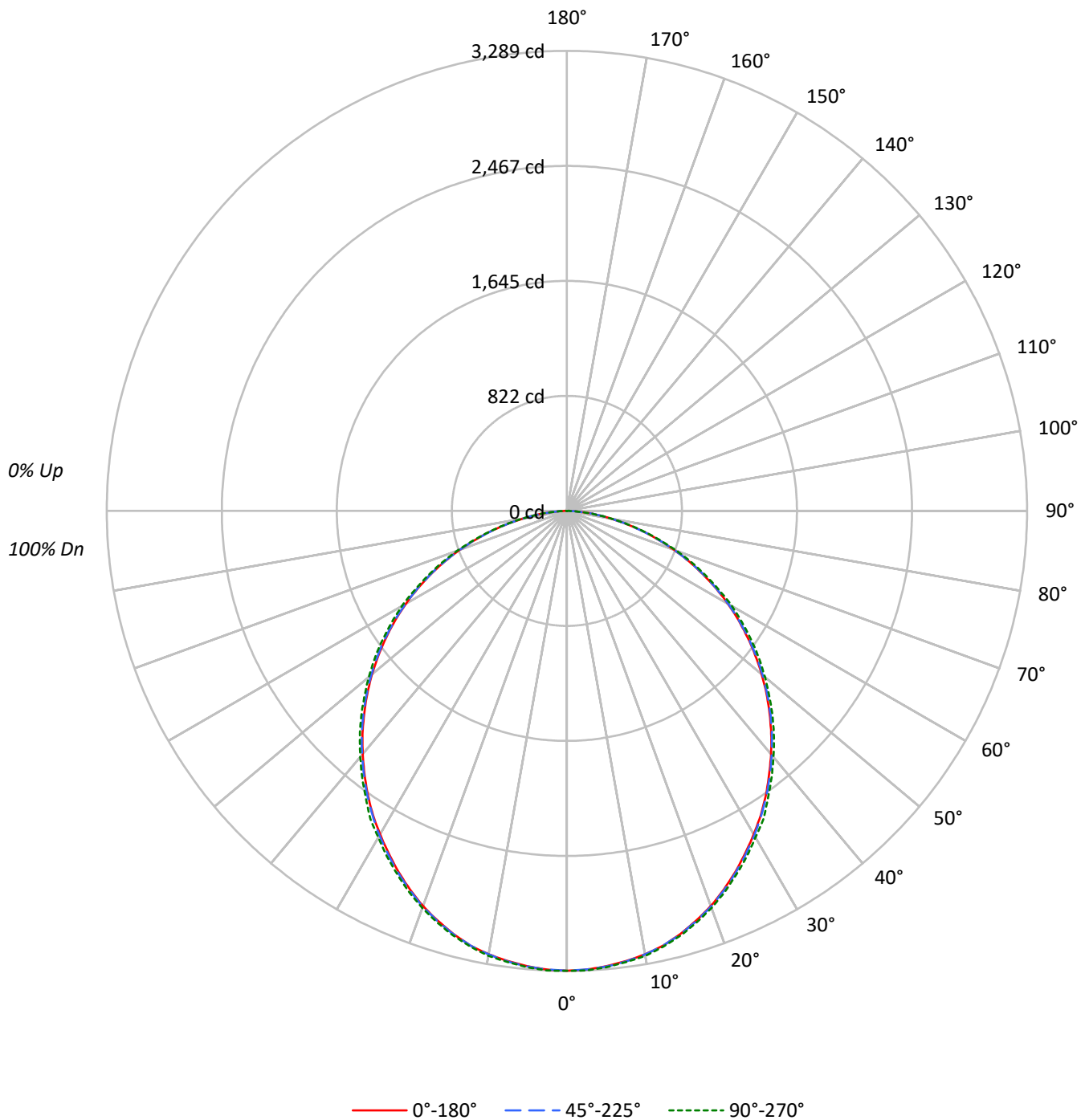
Lumens per Lamp: N/A
Luminaire Lumens: 8884.5 lumens
Efficiency: N/A
Efficacy: 126.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 70.2
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	102	102	100
1	109	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	86	86	84
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	76	72	72	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	61	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	53	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46	46	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	40	40	38
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	36	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	32	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	29	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	26	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4424	4424	4424
5°	4412	4416	4422
10°	4398	4399	4412
15°	4362	4365	4377
20°	4305	4310	4326
25°	4227	4238	4257
30°	4148	4162	4187
35°	4072	4082	4115
40°	3986	4000	4035
45°	3899	3916	3956
50°	3805	3822	3866
55°	3697	3714	3775
60°	3574	3589	3669
65°	3418	3429	3494
70°	3208	3211	3281
75°	2916	2905	2973
80°	2506	2495	2537
85°	1944	1913	1924

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.7	3.5
10°-20°	883.8	9.9
20°-30°	1315.7	14.8
30°-40°	1556.0	17.5
40°-50°	1588.4	17.9
50°-60°	1417.6	16.0
60°-70°	1067.7	12.0
70°-80°	595.4	6.7
80°-90°	149.2	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°	2510.2	28.3
0°-40°	4066.2	45.8
0°-60°	7072.2	79.6
0°-90°	8884.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8884.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3288	3288	3288	3288	3288	
5°	3267	3273	3270	3270	3274	310
15°	3131	3135	3134	3136	3142	883
25°	2848	2851	2854	2862	2867	1312
35°	2479	2476	2485	2495	2505	1550
45°	2049	2048	2058	2068	2079	1581
55°	1576	1574	1583	1594	1609	1409
65°	1074	1069	1077	1086	1097	1062
75°	561	556	559	562	572	595
85°	126	122	124	122	125	151
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3288.0	3288.0	3288.0	3288.0	3288.0
2.5°	3282.5	3288.0	3281.2	3282.5	3288.7
5°	3266.9	3273.0	3269.6	3270.3	3273.7
7.5°	3245.1	3253.3	3248.5	3249.9	3253.3
10°	3219.2	3225.4	3219.9	3223.3	3229.5
12.5°	3182.5	3185.2	3182.5	3183.8	3190.6
15°	3131.4	3134.8	3133.5	3136.2	3142.3
17.5°	3071.5	3075.6	3074.9	3080.4	3085.1
20°	3006.8	3007.5	3010.3	3015.7	3021.1
22.5°	2930.6	2932.6	2935.4	2942.9	2948.3
25°	2847.6	2851.0	2854.4	2861.8	2867.3
27.5°	2759.7	2763.1	2767.9	2776.1	2784.9
30°	2669.9	2669.9	2678.7	2686.9	2695.1
32.5°	2579.3	2575.9	2584.1	2594.3	2614.1
35°	2479.3	2476.5	2485.4	2494.9	2505.1
37.5°	2375.1	2373.1	2383.3	2393.5	2403.0
40°	2269.6	2266.9	2277.1	2287.3	2297.5
42.5°	2161.4	2160.0	2169.5	2179.7	2190.6
45°	2049.0	2048.4	2057.9	2068.1	2079.0
47.5°	1934.7	1933.3	1942.8	1953.7	1963.3
50°	1817.6	1816.2	1825.8	1836.6	1846.9
52.5°	1697.1	1697.1	1705.9	1715.5	1731.1
55°	1575.9	1573.9	1583.4	1594.3	1609.3
57.5°	1453.4	1450.7	1459.5	1470.4	1484.0
60°	1328.1	1325.4	1333.6	1344.5	1363.5
62.5°	1201.5	1197.4	1205.6	1215.8	1227.4
65°	1073.5	1069.4	1076.9	1086.5	1097.4
67.5°	944.9	940.1	947.6	955.8	966.0
70°	815.5	810.8	816.2	824.4	833.9
72.5°	686.9	682.1	686.9	690.3	701.8
75°	560.9	556.2	558.9	561.6	571.8
77.5°	438.4	433.6	439.1	440.4	446.6
80°	323.4	318.6	322.0	322.7	327.4
82.5°	218.5	214.4	219.2	215.8	219.9
85°	125.9	122.5	123.9	122.5	124.6
87.5°	49.7	47.0	47.7	44.9	44.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)