

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: P834989

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-6STD-30-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P834989
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-LD4-6STD-30-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

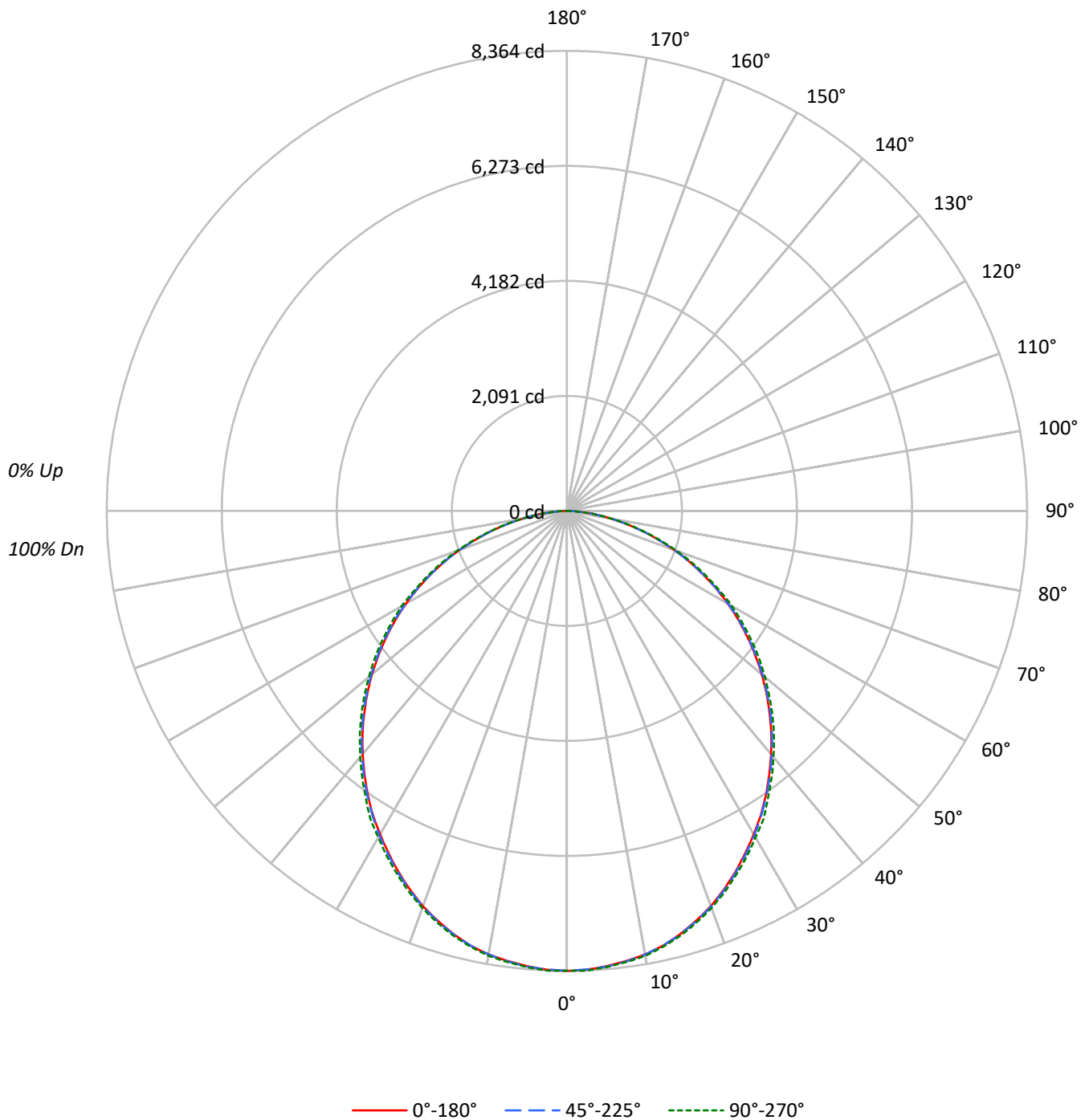
Lumens per Lamp: N/A
Luminaire Lumens: 22595.5 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 199.8
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°	11251	11251	11251
5°	11222	11231	11245
10°	11186	11188	11221
15°	11093	11101	11132
20°	10949	10962	11002
25°	10751	10777	10826
30°	10549	10584	10649
35°	10357	10382	10465
40°	10138	10172	10263
45°	9916	9959	10061
50°	9676	9719	9832
55°	9402	9446	9601
60°	9090	9127	9332
65°	8692	8720	8885
70°	8159	8166	8343
75°	7416	7389	7560
80°	6372	6345	6453
85°	4945	4864	4891

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	790.2	3.5
10°-20°	2247.7	9.9
20°-30°	3346.2	14.8
30°-40°	3957.2	17.5
40°-50°	4039.7	17.9
50°-60°	3605.2	16.0
60°-70°	2715.4	12.0
70°-80°	1514.3	6.7
80°-90°	379.4	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°	6384.1	28.3
0°-40°	10341.3	45.8
0°-60°	17986.3	79.6
0°-90°	22595.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22595.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8362	8362	8362	8362	8362	
5°	8308	8324	8315	8317	8326	789
15°	7964	7973	7969	7976	7992	2245
25°	7242	7251	7259	7278	7292	3336
35°	6305	6298	6321	6345	6371	3943
45°	5211	5210	5234	5260	5287	4020
55°	4008	4003	4027	4055	4093	3583
65°	2730	2720	2739	2763	2791	2700
75°	1427	1414	1421	1428	1454	1512
85°	320	312	315	312	317	384
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8362.1	8362.1	8362.1	8362.1	8362.1
2.5°	8348.3	8362.1	8344.8	8348.3	8363.9
5°	8308.5	8324.1	8315.4	8317.1	8325.8
7.5°	8253.1	8273.9	8261.7	8265.2	8273.9
10°	8187.3	8202.9	8189.0	8197.7	8213.3
12.5°	8093.8	8100.7	8093.8	8097.3	8114.6
15°	7963.9	7972.6	7969.1	7976.1	7991.6
17.5°	7811.6	7822.0	7820.3	7834.1	7846.2
20°	7647.1	7648.9	7655.8	7669.6	7683.5
22.5°	7453.2	7458.4	7465.3	7484.4	7498.2
25°	7242.0	7250.7	7259.3	7278.4	7292.2
27.5°	7018.7	7027.3	7039.4	7060.2	7082.7
30°	6790.1	6790.1	6812.6	6833.4	6854.2
32.5°	6559.9	6551.2	6572.0	6598.0	6648.2
35°	6305.4	6298.4	6321.0	6345.2	6371.2
37.5°	6040.5	6035.3	6061.3	6087.2	6111.5
40°	5772.1	5765.2	5791.2	5817.1	5843.1
42.5°	5496.9	5493.4	5517.6	5543.6	5571.3
45°	5211.2	5209.5	5233.7	5259.7	5287.4
47.5°	4920.3	4916.9	4941.1	4968.8	4993.0
50°	4622.6	4619.1	4643.3	4671.0	4697.0
52.5°	4316.1	4316.1	4338.6	4362.9	4402.7
55°	4007.9	4002.8	4027.0	4054.7	4092.8
57.5°	3696.3	3689.4	3711.9	3739.6	3774.2
60°	3377.8	3370.8	3391.6	3419.3	3467.8
62.5°	3055.7	3045.3	3066.1	3092.1	3121.5
65°	2730.2	2719.9	2738.9	2763.1	2790.8
67.5°	2403.0	2390.9	2410.0	2430.7	2456.7
70°	2074.1	2062.0	2075.8	2096.6	2120.8
72.5°	1746.9	1734.8	1746.9	1755.5	1785.0
75°	1426.6	1414.5	1421.4	1428.3	1454.3
77.5°	1115.0	1102.8	1116.7	1120.1	1135.7
80°	822.4	810.2	818.9	820.6	832.8
82.5°	555.7	545.4	557.5	548.8	559.2
85°	320.3	311.6	315.1	311.6	316.8
87.5°	126.4	119.5	121.2	114.3	114.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)