

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: P835620

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-6HI-27-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835620
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-LD4-6HI-27-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

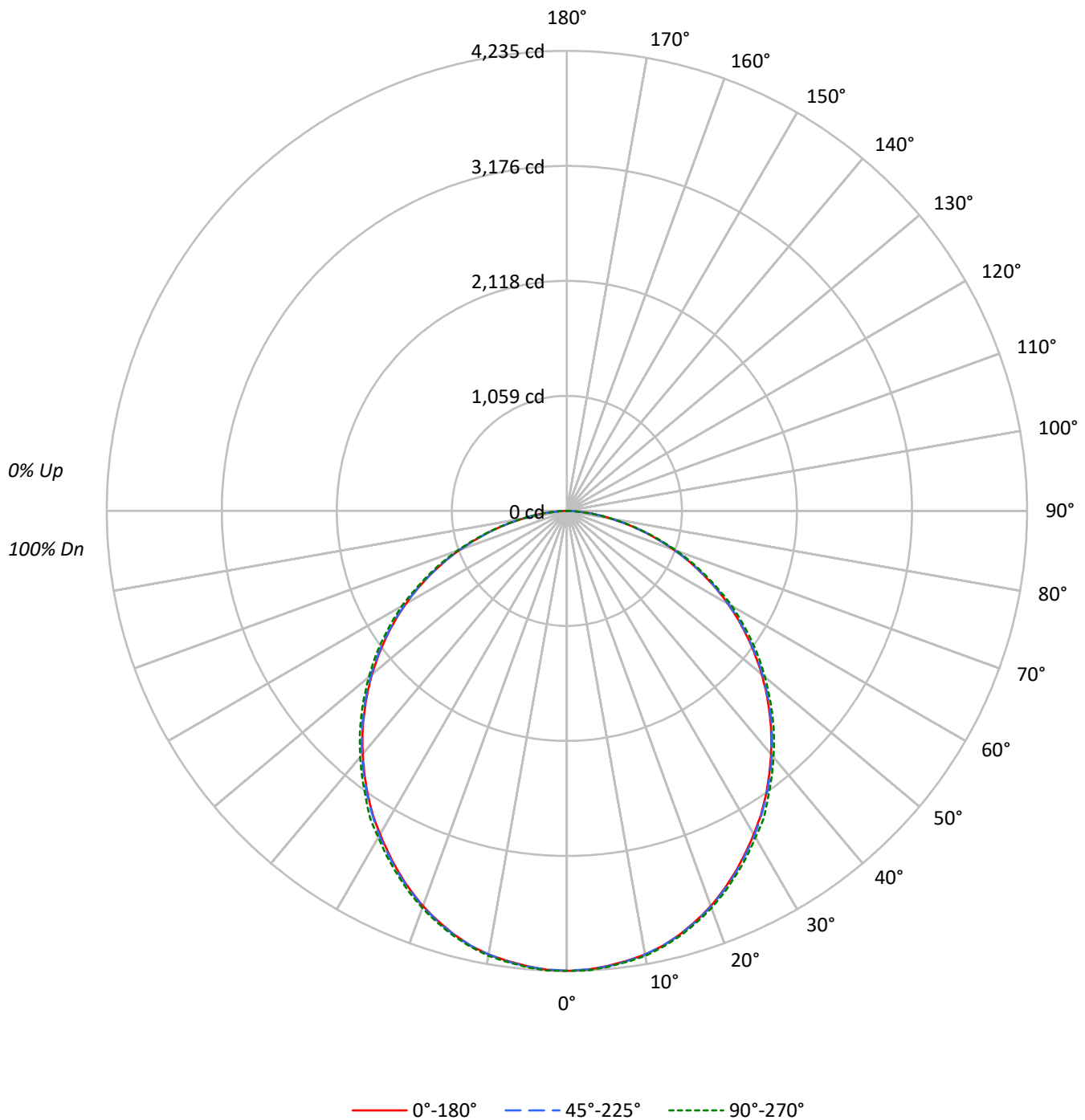
Lumens per Lamp: N/A
Luminaire Lumens: 11440.5 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 132
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

Peachtree City, GA 30269



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11393	11393	11393
5°	11363	11373	11387
10°	11327	11330	11363
15°	11234	11241	11273
20°	11088	11100	11141
25°	10887	10913	10963
30°	10683	10718	10783
35°	10488	10514	10597
40°	10266	10300	10393
45°	10041	10085	10188
50°	9798	9842	9956
55°	9521	9566	9722
60°	9204	9242	9450
65°	8802	8830	8998
70°	8263	8269	8449
75°	7510	7483	7655
80°	6453	6425	6533
85°	5008	4925	4952

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	400.1	3.5
10°-20°	1138.1	9.9
20°-30°	1694.2	14.8
30°-40°	2003.6	17.5
40°-50°	2045.4	17.9
50°-60°	1825.4	16.0
60°-70°	1374.9	12.0
70°-80°	766.7	6.7
80°-90°	192.1	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°	3232.4	28.3
0°-40°	5236.0	45.8
0°-60°	9106.8	79.6
0°-90°	11440.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11440.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4234	4234	4234	4234	4234	
5°	4207	4215	4210	4211	4216	400
15°	4032	4037	4035	4038	4046	1137
25°	3667	3671	3676	3685	3692	1689
35°	3192	3189	3200	3213	3226	1996
45°	2638	2638	2650	2663	2677	2035
55°	2029	2027	2039	2053	2072	1814
65°	1382	1377	1387	1399	1413	1367
75°	722	716	720	723	736	766
85°	162	158	160	158	160	195
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4233.9	4233.9	4233.9	4233.9	4233.9
2.5°	4226.9	4233.9	4225.1	4226.9	4234.8
5°	4206.7	4214.6	4210.2	4211.1	4215.5
7.5°	4178.7	4189.2	4183.1	4184.8	4189.2
10°	4145.4	4153.3	4146.3	4150.6	4158.5
12.5°	4098.0	4101.5	4098.0	4099.8	4108.6
15°	4032.3	4036.7	4034.9	4038.4	4046.3
17.5°	3955.2	3960.4	3959.5	3966.6	3972.7
20°	3871.9	3872.8	3876.3	3883.3	3890.3
22.5°	3773.7	3776.3	3779.8	3789.5	3796.5
25°	3666.8	3671.1	3675.5	3685.2	3692.2
27.5°	3553.7	3558.1	3564.2	3574.7	3586.1
30°	3438.0	3438.0	3449.4	3459.9	3470.4
32.5°	3321.4	3317.0	3327.5	3340.7	3366.1
35°	3192.5	3189.0	3200.4	3212.7	3225.8
37.5°	3058.4	3055.8	3068.9	3082.1	3094.3
40°	2922.5	2919.0	2932.2	2945.3	2958.5
42.5°	2783.2	2781.4	2793.7	2806.8	2820.9
45°	2638.5	2637.6	2649.9	2663.1	2677.1
47.5°	2491.3	2489.5	2501.8	2515.8	2528.1
50°	2340.5	2338.7	2351.0	2365.0	2378.2
52.5°	2185.3	2185.3	2196.7	2209.0	2229.2
55°	2029.3	2026.7	2038.9	2053.0	2072.2
57.5°	1871.5	1868.0	1879.4	1893.4	1911.0
60°	1710.2	1706.7	1717.2	1731.3	1755.8
62.5°	1547.2	1541.9	1552.4	1565.6	1580.5
65°	1382.4	1377.1	1386.8	1399.0	1413.1
67.5°	1216.7	1210.6	1220.2	1230.7	1243.9
70°	1050.2	1044.0	1051.0	1061.5	1073.8
72.5°	884.5	878.3	884.5	888.9	903.8
75°	722.3	716.2	719.7	723.2	736.3
77.5°	564.5	558.4	565.4	567.2	575.0
80°	416.4	410.2	414.6	415.5	421.6
82.5°	281.4	276.1	282.3	277.9	283.1
85°	162.2	157.8	159.5	157.8	160.4
87.5°	64.0	60.5	61.4	57.9	57.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)