

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: P835689

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-5HI-50-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835689
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-LD4-5HI-50-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

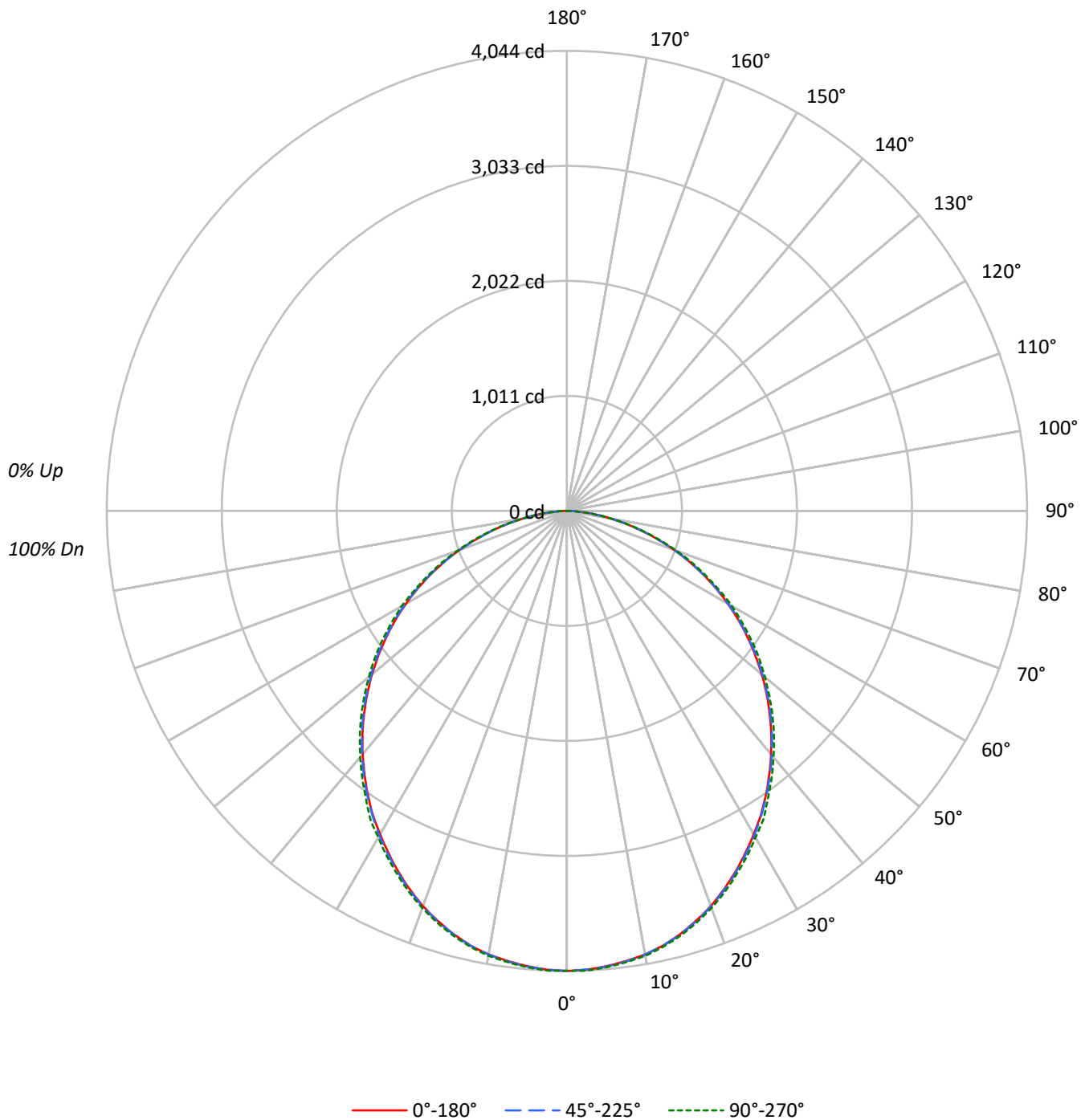
Lumens per Lamp: N/A
Luminaire Lumens: 10926.0 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 110
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°	10881	10881	10881
5°	10852	10861	10875
10°	10818	10820	10852
15°	10728	10735	10766
20°	10589	10601	10639
25°	10397	10422	10470
30°	10202	10236	10298
35°	10016	10041	10121
40°	9805	9837	9925
45°	9590	9631	9730
50°	9357	9400	9508
55°	9092	9135	9285
60°	8790	8826	9024
65°	8406	8433	8593
70°	7891	7898	8069
75°	7172	7146	7311
80°	6163	6137	6241
85°	4783	4705	4730

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	382.1	3.5
10°-20°	1086.9	9.9
20°-30°	1618.0	14.8
30°-40°	1913.5	17.5
40°-50°	1953.4	17.9
50°-60°	1743.3	16.0
60°-70°	1313.0	12.0
70°-80°	732.3	6.7
80°-90°	183.5	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°	3087.0	28.3
0°-40°	5000.5	45.8
0°-60°	8697.2	79.6
0°-90°	10926.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10926.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4044	4044	4044	4044	4044	
5°	4018	4025	4021	4022	4026	382
15°	3851	3855	3854	3857	3864	1085
25°	3502	3506	3510	3519	3526	1613
35°	3049	3046	3056	3068	3081	1907
45°	2520	2519	2531	2543	2557	1944
55°	1938	1936	1947	1961	1979	1732
65°	1320	1315	1324	1336	1350	1306
75°	690	684	687	691	703	731
85°	155	151	152	151	153	186
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4043.5	4043.5	4043.5	4043.5	4043.5
2.5°	4036.8	4043.5	4035.1	4036.8	4044.3
5°	4017.5	4025.1	4020.9	4021.7	4025.9
7.5°	3990.8	4000.8	3994.9	3996.6	4000.8
10°	3958.9	3966.5	3959.8	3964.0	3971.5
12.5°	3913.7	3917.1	3913.7	3915.4	3923.8
15°	3850.9	3855.1	3853.5	3856.8	3864.3
17.5°	3777.3	3782.3	3781.5	3788.2	3794.0
20°	3697.7	3698.6	3701.9	3708.6	3715.3
22.5°	3604.0	3606.5	3609.8	3619.1	3625.7
25°	3501.8	3506.0	3510.2	3519.4	3526.1
27.5°	3393.9	3398.0	3403.9	3413.9	3424.8
30°	3283.3	3283.3	3294.2	3304.3	3314.3
32.5°	3172.0	3167.8	3177.9	3190.4	3214.7
35°	3048.9	3045.6	3056.5	3068.2	3080.8
37.5°	2920.9	2918.3	2930.9	2943.5	2955.2
40°	2791.1	2787.7	2800.3	2812.9	2825.4
42.5°	2658.0	2656.3	2668.0	2680.6	2694.0
45°	2519.9	2519.0	2530.7	2543.3	2556.7
47.5°	2379.2	2377.5	2389.3	2402.7	2414.4
50°	2235.2	2233.5	2245.3	2258.7	2271.2
52.5°	2087.0	2087.0	2097.9	2109.6	2128.9
55°	1938.0	1935.5	1947.2	1960.6	1979.1
57.5°	1787.3	1784.0	1794.9	1808.3	1825.0
60°	1633.3	1630.0	1640.0	1653.4	1676.8
62.5°	1477.6	1472.6	1482.6	1495.2	1509.4
65°	1320.2	1315.2	1324.4	1336.1	1349.5
67.5°	1162.0	1156.1	1165.3	1175.4	1187.9
70°	1002.9	997.1	1003.8	1013.8	1025.5
72.5°	844.7	838.8	844.7	848.9	863.1
75°	689.8	684.0	687.3	690.7	703.2
77.5°	539.1	533.3	540.0	541.6	549.2
80°	397.7	391.8	396.0	396.8	402.7
82.5°	268.7	263.7	269.6	265.4	270.4
85°	154.9	150.7	152.4	150.7	153.2
87.5°	61.1	57.8	58.6	55.3	55.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)