

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: P835073

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-4STD-27-120-EDD-90**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835073
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-LD4-4STD-27-120-EDD-90
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

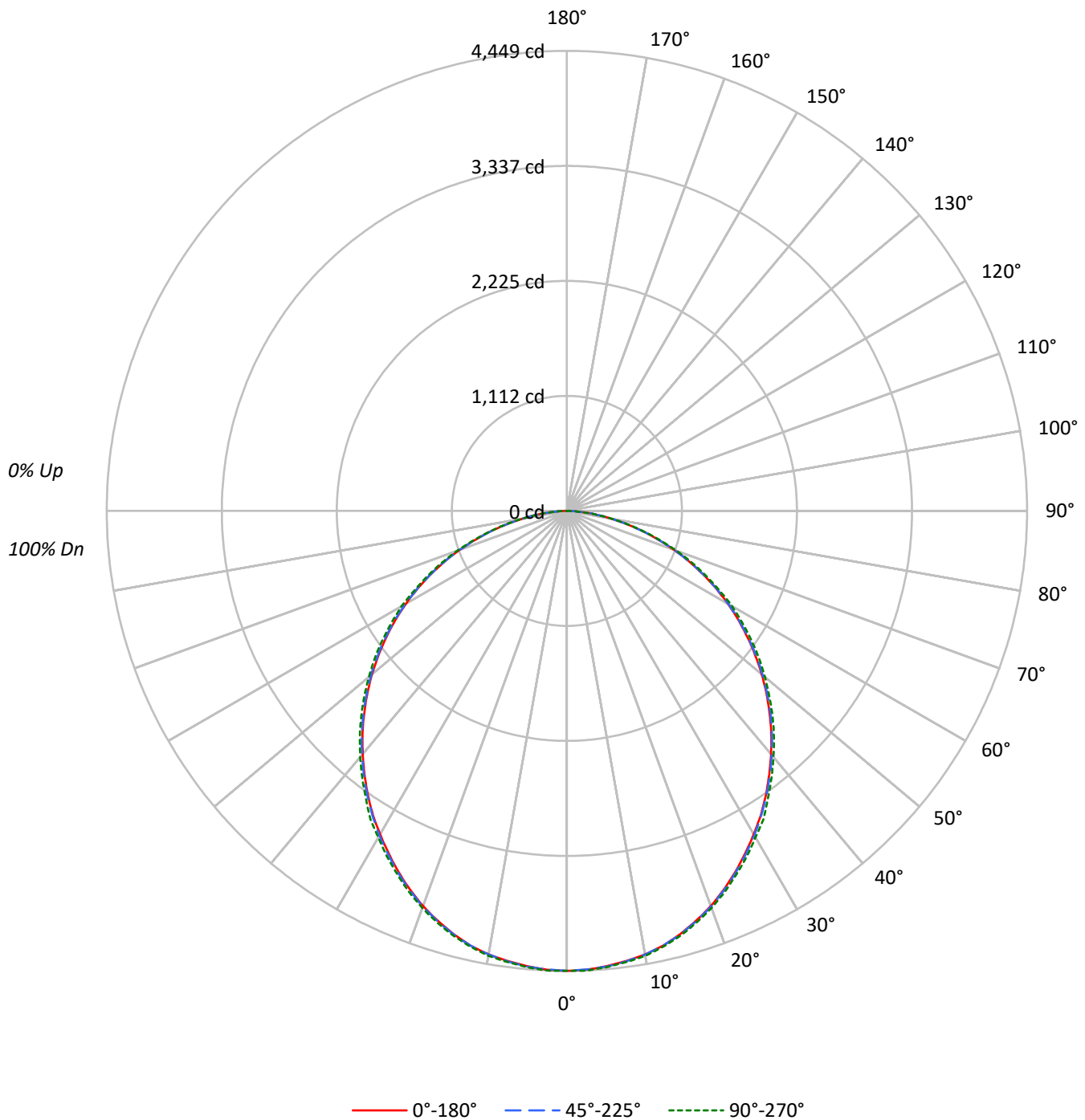
Lumens per Lamp: N/A
Luminaire Lumens: 12018.9 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 133.2
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

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°	5985	5985	5985
5°	5969	5974	5981
10°	5950	5951	5969
15°	5901	5905	5921
20°	5824	5831	5852
25°	5719	5732	5758
30°	5611	5630	5664
35°	5509	5523	5566
40°	5393	5410	5459
45°	5274	5297	5351
50°	5147	5170	5230
55°	5001	5025	5107
60°	4835	4855	4964
65°	4624	4638	4726
70°	4340	4344	4438
75°	3945	3931	4022
80°	3389	3375	3433
85°	2631	2587	2601

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	420.3	3.5
10°-20°	1195.6	9.9
20°-30°	1779.9	14.8
30°-40°	2104.9	17.5
40°-50°	2148.8	17.9
50°-60°	1917.7	16.0
60°-70°	1444.4	12.0
70°-80°	805.5	6.7
80°-90°	201.8	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°	3395.8	28.3
0°-40°	5500.7	45.8
0°-60°	9567.2	79.6
0°-90°	12018.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12018.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4448	4448	4448	4448	4448	
5°	4419	4428	4423	4424	4429	420
15°	4236	4241	4239	4243	4251	1194
25°	3852	3857	3861	3872	3879	1775
35°	3354	3350	3362	3375	3389	2097
45°	2772	2771	2784	2798	2812	2138
55°	2132	2129	2142	2157	2177	1906
65°	1452	1447	1457	1470	1484	1436
75°	759	752	756	760	774	804
85°	170	166	168	166	168	205
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4448.0	4448.0	4448.0	4448.0	4448.0
2.5°	4440.6	4448.0	4438.7	4440.6	4448.9
5°	4419.4	4427.7	4423.1	4424.0	4428.6
7.5°	4389.9	4401.0	4394.5	4396.4	4401.0
10°	4354.9	4363.2	4355.9	4360.5	4368.8
12.5°	4305.2	4308.9	4305.2	4307.1	4316.3
15°	4236.1	4240.7	4238.9	4242.6	4250.9
17.5°	4155.1	4160.6	4159.7	4167.1	4173.5
20°	4067.6	4068.5	4072.2	4079.6	4087.0
22.5°	3964.5	3967.2	3970.9	3981.1	3988.4
25°	3852.1	3856.7	3861.3	3871.5	3878.8
27.5°	3733.3	3737.9	3744.4	3755.4	3767.4
30°	3611.8	3611.8	3623.7	3634.8	3645.8
32.5°	3489.3	3484.7	3495.7	3509.6	3536.3
35°	3353.9	3350.2	3362.2	3375.1	3388.9
37.5°	3213.0	3210.3	3224.1	3237.9	3250.8
40°	3070.3	3066.6	3080.4	3094.2	3108.0
42.5°	2923.9	2922.0	2934.9	2948.7	2963.5
45°	2771.9	2771.0	2783.9	2797.7	2812.4
47.5°	2617.2	2615.4	2628.3	2643.0	2655.9
50°	2458.8	2457.0	2469.9	2484.6	2498.4
52.5°	2295.8	2295.8	2307.8	2320.7	2341.9
55°	2131.9	2129.1	2142.0	2156.7	2177.0
57.5°	1966.1	1962.4	1974.4	1989.1	2007.6
60°	1796.7	1793.0	1804.0	1818.8	1844.6
62.5°	1625.4	1619.9	1630.9	1644.7	1660.4
65°	1452.3	1446.7	1456.9	1469.8	1484.5
67.5°	1278.2	1271.8	1281.9	1292.9	1306.8
70°	1103.2	1096.8	1104.2	1115.2	1128.1
72.5°	929.2	922.7	929.2	933.8	949.4
75°	758.8	752.4	756.1	759.7	773.6
77.5°	593.1	586.6	594.0	595.8	604.1
80°	437.4	431.0	435.6	436.5	443.0
82.5°	295.6	290.1	296.5	291.9	297.5
85°	170.4	165.8	167.6	165.8	168.5
87.5°	67.2	63.5	64.5	60.8	60.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)