

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: P835106

Luminaire Tested: **ORLG-24-4-INS-OPL-LD4-3STD-35-120-EDD-90**

Issue Date: 5/16/2024

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

**Test Information**

Test Method: LM-79-08
Report Number: P835106
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-LD4-3STD-35-120-EDD-90
Description: 2FT x 4FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

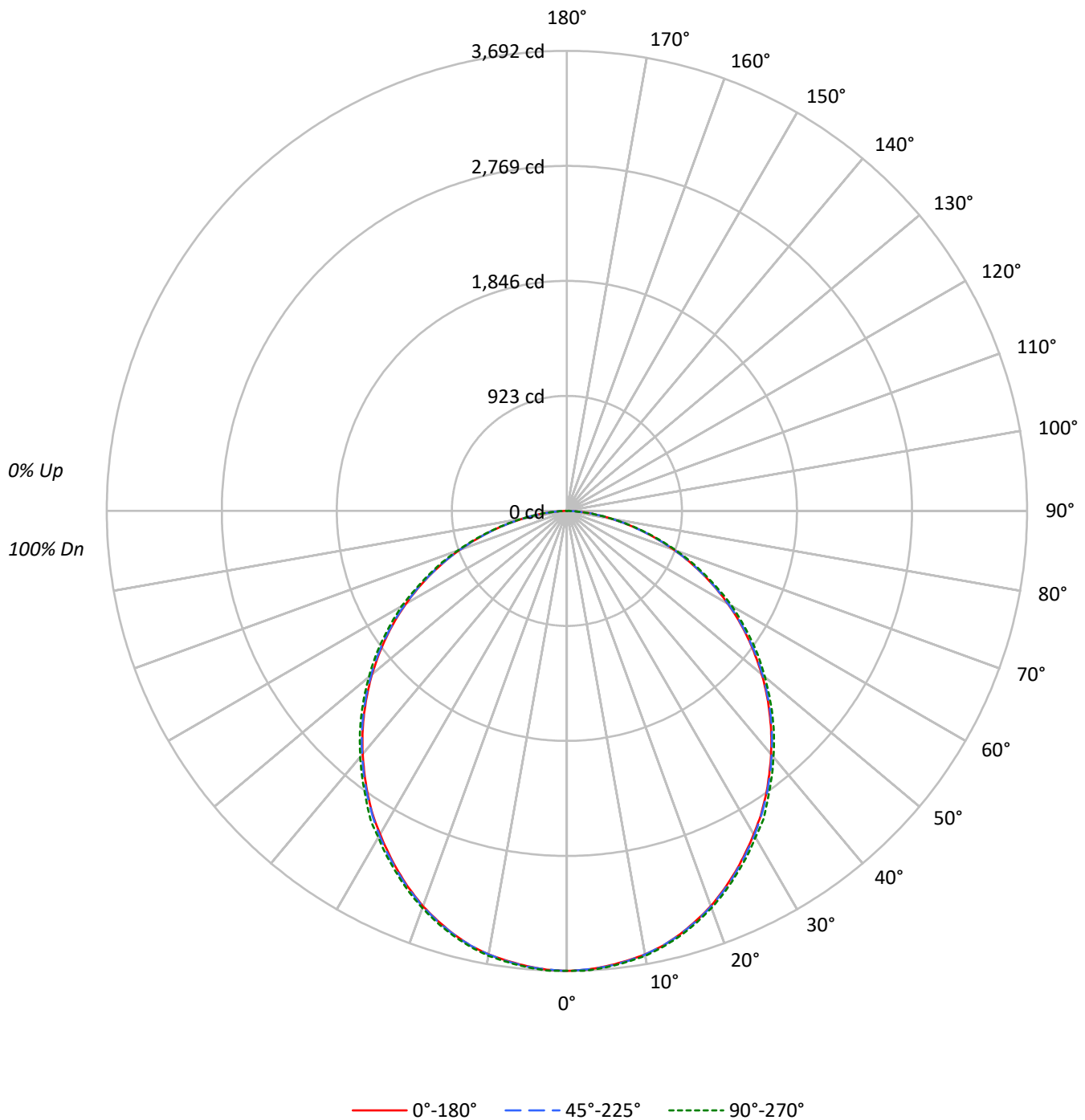
Lumens per Lamp: N/A
Luminaire Lumens: 9974.9 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 99.9
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



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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°	4967	4967	4967
5°	4954	4958	4964
10°	4938	4939	4954
15°	4897	4900	4914
20°	4834	4839	4857
25°	4746	4758	4779
30°	4657	4673	4701
35°	4572	4583	4620
40°	4476	4490	4531
45°	4377	4396	4441
50°	4271	4291	4340
55°	4150	4170	4238
60°	4013	4029	4120
65°	3837	3849	3922
70°	3602	3605	3683
75°	3274	3262	3337
80°	2813	2801	2848
85°	2183	2147	2160

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.8	3.5
10°-20°	992.3	9.9
20°-30°	1477.2	14.8
30°-40°	1746.9	17.5
40°-50°	1783.4	17.9
50°-60°	1591.5	16.0
60°-70°	1198.8	12.0
70°-80°	668.5	6.7
80°-90°	167.5	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°	2818.3	28.3
0°-40°	4565.2	45.8
0°-60°	7940.1	79.6
0°-90°	9974.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9974.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3692	3692	3692	3692	3692	
5°	3668	3675	3671	3672	3676	348
15°	3516	3520	3518	3521	3528	991
25°	3197	3201	3205	3213	3219	1473
35°	2784	2780	2790	2801	2813	1741
45°	2300	2300	2310	2322	2334	1775
55°	1769	1767	1778	1790	1807	1582
65°	1205	1201	1209	1220	1232	1192
75°	630	624	628	630	642	668
85°	141	138	139	138	140	170
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3691.5	3691.5	3691.5	3691.5	3691.5
2.5°	3685.4	3691.5	3683.9	3685.4	3692.3
5°	3667.8	3674.7	3670.9	3671.6	3675.5
7.5°	3643.4	3652.5	3647.2	3648.7	3652.5
10°	3614.3	3621.2	3615.1	3618.9	3625.8
12.5°	3573.0	3576.1	3573.0	3574.6	3582.2
15°	3515.7	3519.5	3518.0	3521.1	3527.9
17.5°	3448.5	3453.0	3452.3	3458.4	3463.7
20°	3375.9	3376.6	3379.7	3385.8	3391.9
22.5°	3290.3	3292.5	3295.6	3304.0	3310.1
25°	3197.0	3200.8	3204.7	3213.1	3219.2
27.5°	3098.4	3102.2	3107.6	3116.8	3126.7
30°	2997.5	2997.5	3007.5	3016.6	3025.8
32.5°	2895.9	2892.1	2901.2	2912.7	2934.9
35°	2783.5	2780.5	2790.4	2801.1	2812.6
37.5°	2666.6	2664.3	2675.8	2687.2	2697.9
40°	2548.1	2545.1	2556.5	2568.0	2579.5
42.5°	2426.6	2425.1	2435.8	2447.2	2459.5
45°	2300.5	2299.7	2310.4	2321.9	2334.1
47.5°	2172.1	2170.6	2181.3	2193.5	2204.2
50°	2040.6	2039.1	2049.8	2062.0	2073.5
52.5°	1905.4	1905.4	1915.3	1926.0	1943.6
55°	1769.3	1767.0	1777.7	1790.0	1806.8
57.5°	1631.8	1628.7	1638.6	1650.9	1666.1
60°	1491.1	1488.1	1497.2	1509.5	1530.9
62.5°	1349.0	1344.4	1353.6	1365.0	1378.0
65°	1205.3	1200.7	1209.1	1219.8	1232.0
67.5°	1060.8	1055.5	1063.9	1073.1	1084.5
70°	915.6	910.3	916.4	925.6	936.3
72.5°	771.2	765.8	771.2	775.0	788.0
75°	629.8	624.4	627.5	630.5	642.0
77.5°	492.2	486.9	493.0	494.5	501.4
80°	363.0	357.7	361.5	362.3	367.6
82.5°	245.3	240.8	246.1	242.3	246.9
85°	141.4	137.6	139.1	137.6	139.9
87.5°	55.8	52.7	53.5	50.4	50.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)