

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: P485186

Luminaire Tested: **ORLG-12-4-INS-A125-LD4-3STD-30-120-EDD-90**

Issue Date: 3/1/2021

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P485186
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35355)
Test Lab: INNOVATION CENTER
Issue Date: 3/1/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-12-4-INS-A125-LD4-3STD-30-120-EDD-90
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

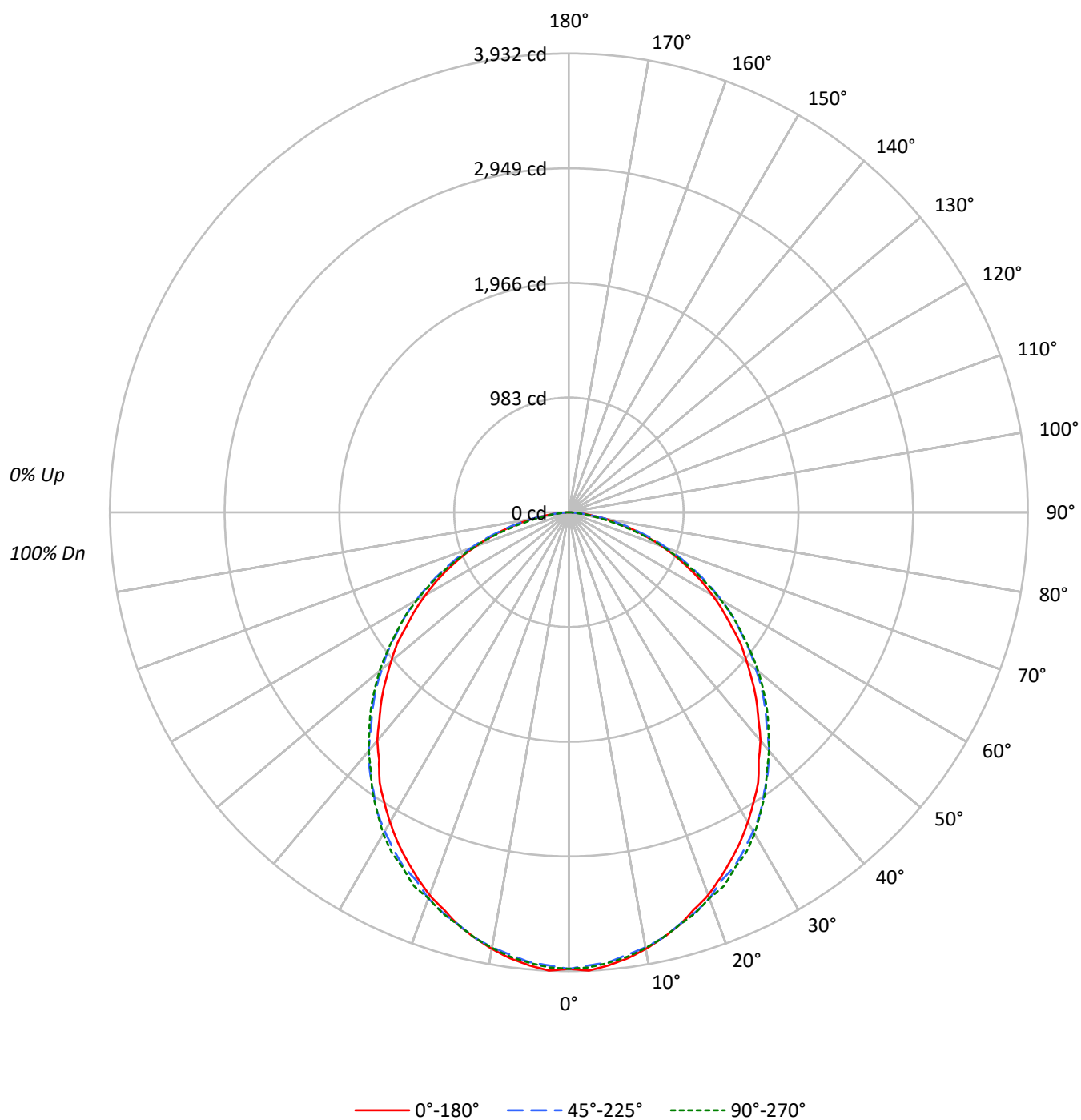
Lumens per Lamp: N/A
Luminaire Lumens: 10049.9 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 99.9
Input Voltage (V): NR
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: 25 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				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0			
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85			
2	100	92	85	79	97	90	84	79	86	81	77	83	79	75	80	76	73	71			
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60			
4	83	72	63	57	81	70	62	56	68	61	55	66	59	55	63	58	54	52			
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45			
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39			
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35			
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31			
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28			
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10529	10529	10529
5°	10529	10454	10471
10°	10382	10346	10358
15°	10203	10191	10197
20°	9998	10084	10077
25°	9763	9953	9985
30°	9525	9805	9884
35°	9291	9592	9635
40°	8972	9379	9371
45°	8646	9053	9143
50°	8320	8750	8866
55°	7969	8441	8491
60°	7633	8140	8082
65°	7233	7642	7492
70°	6665	7019	6699
75°	5894	6138	5361
80°	4740	4807	3746
85°	3103	2973	2180



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	367.8	3.7
10°-20°	1034.1	10.3
20°-30°	1539.6	15.3
30°-40°	1812.2	18.0
40°-50°	1817.0	18.1
50°-60°	1593.3	15.9
60°-70°	1165.1	11.6
70°-80°	600.4	6.0
80°-90°	120.5	1.2
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°	2941.5	29.3
0°-40°	4753.7	47.3
0°-60°	8163.9	81.2
0°-90°	10049.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10049.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3913	3913	3913	3913	3913	
5°	3898	3872	3870	3896	3876	369
15°	3662	3669	3658	3682	3660	1031
25°	3288	3303	3352	3399	3363	1515
35°	2828	2841	2920	2952	2933	1761
45°	2272	2283	2379	2409	2402	1751
55°	1698	1737	1799	1825	1810	1525
65°	1136	1162	1200	1196	1177	1124
75°	567	571	590	550	516	601
85°	100	98	96	77	71	131
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3912.7	3912.7	3912.7	3912.7	3912.7
2.5°	3931.9	3912.7	3887.0	3908.4	3904.1
5°	3897.7	3872.0	3869.9	3895.5	3876.3
7.5°	3854.9	3850.6	3824.9	3852.8	3842.1
10°	3799.3	3795.0	3786.4	3805.7	3790.7
12.5°	3733.0	3728.7	3733.0	3743.7	3733.0
15°	3662.4	3668.8	3658.1	3681.6	3660.2
17.5°	3568.2	3574.7	3596.0	3604.6	3602.5
20°	3491.2	3495.5	3521.2	3555.4	3519.0
22.5°	3390.7	3401.4	3414.2	3476.2	3467.7
25°	3288.0	3303.0	3352.2	3399.2	3362.9
27.5°	3181.0	3196.0	3255.9	3290.1	3285.9
30°	3065.5	3080.5	3155.4	3202.4	3181.0
32.5°	2945.7	2971.4	3052.7	3093.3	3052.7
35°	2828.1	2840.9	2920.0	2952.1	2932.9
37.5°	2671.9	2721.1	2800.3	2821.6	2787.4
40°	2554.2	2556.4	2669.8	2669.8	2667.6
42.5°	2402.4	2436.6	2511.5	2552.1	2530.7
45°	2271.9	2282.6	2378.8	2408.8	2402.4
47.5°	2128.5	2171.3	2241.9	2276.1	2259.0
50°	1987.3	2017.3	2090.0	2135.0	2117.8
52.5°	1856.9	1880.4	1955.3	1980.9	1963.8
55°	1698.5	1737.1	1799.1	1824.8	1809.8
57.5°	1561.6	1589.4	1666.5	1675.0	1666.5
60°	1418.3	1450.4	1512.4	1518.9	1501.7
62.5°	1281.4	1302.8	1358.4	1360.6	1341.3
65°	1135.9	1161.6	1200.1	1195.8	1176.6
67.5°	992.6	1009.7	1046.1	1031.1	1009.7
70°	847.1	862.1	892.1	870.7	851.4
72.5°	705.9	716.6	742.3	710.2	686.7
75°	566.9	571.2	590.4	549.8	515.6
77.5°	430.0	434.3	445.0	404.3	365.8
80°	305.9	305.9	310.2	267.4	241.7
82.5°	192.5	192.5	190.4	158.3	143.3
85°	100.5	98.4	96.3	77.0	70.6
87.5°	36.4	36.4	29.9	27.8	29.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)