

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: P485128

Luminaire Tested: **ORLG-12-4-INS-A125-LD4-2HI-35-120-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: P485128
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-LD4-2HI-35-120-EDD-90
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

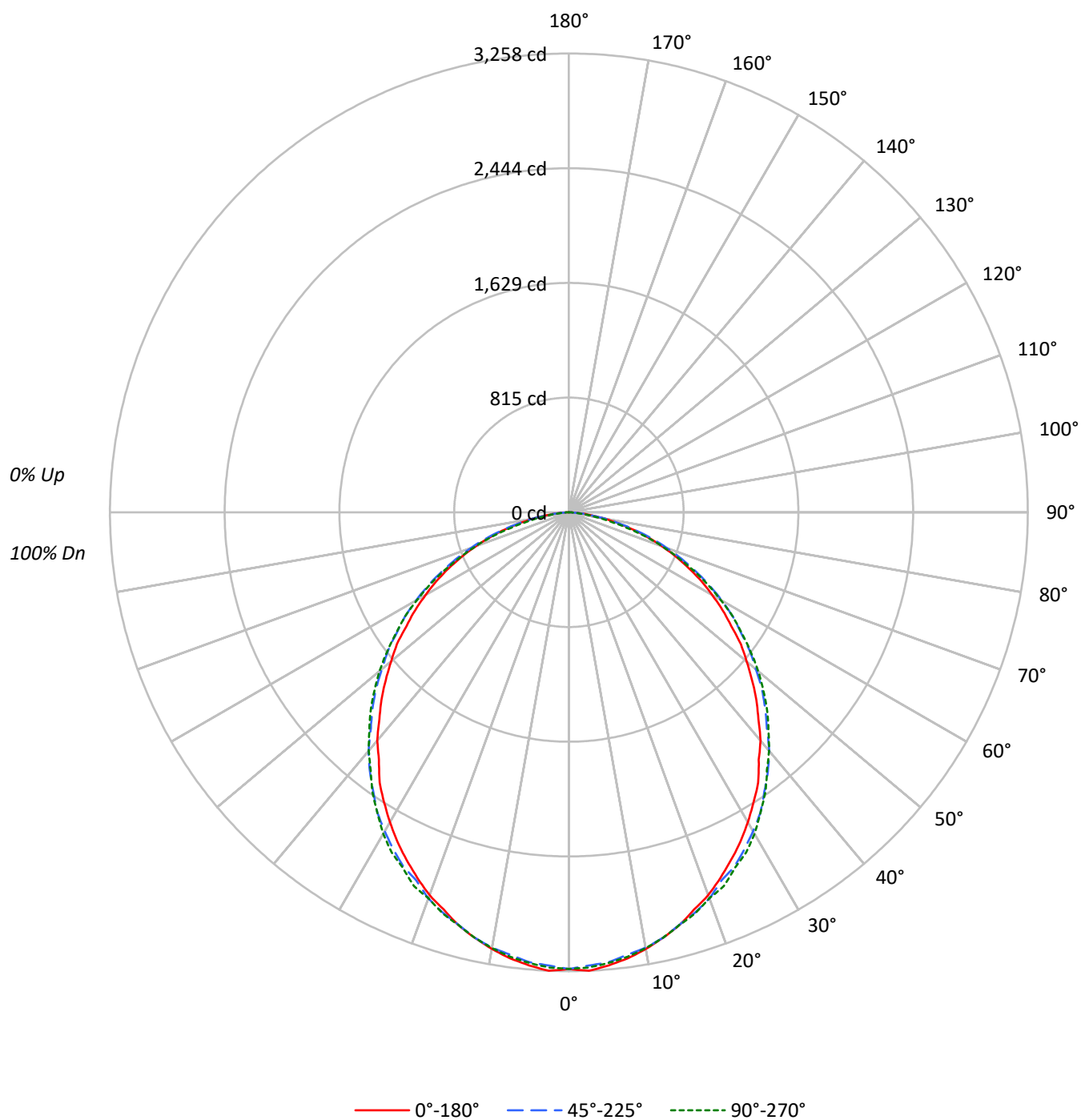
Lumens per Lamp: N/A
Luminaire Lumens: 8327.8 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 88
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
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	105	101	97	107	102	99	95	98	95	92		94	92	90		91
2	100	92	85	79	97	90	84	79	86	81	77		83	79	75		80
3	91	81	73	66	89	79	72	66	76	70	65		73	68	64		71
4	83	72	63	57	81	70	62	56	68	61	55		66	59	55		63
5	77	64	55	49	75	63	55	49	61	54	48		59	53	48		57
6	71	58	49	43	69	57	49	43	55	48	42		53	47	42		52
7	66	53	44	38	64	52	44	38	50	43	37		49	42	37		47
8	61	48	40	34	60	47	39	34	46	39	34		45	38	33		44
9	57	44	36	31	56	44	36	30	42	35	30		41	35	30		40
10	54	41	33	28	53	40	33	28	39	32	28		38	32	27		37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8725	8725	8725
5°	8725	8662	8677
10°	8602	8573	8583
15°	8455	8445	8450
20°	8285	8356	8350
25°	8090	8248	8274
30°	7893	8125	8190
35°	7699	7949	7984
40°	7435	7771	7765
45°	7164	7502	7576
50°	6894	7250	7347
55°	6603	6994	7036
60°	6325	6745	6697
65°	5994	6332	6208
70°	5523	5816	5551
75°	4885	5087	4442
80°	3928	3983	3104
85°	2572	2464	1806



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.7	3.7
10°-20°	856.9	10.3
20°-30°	1275.8	15.3
30°-40°	1501.7	18.0
40°-50°	1505.6	18.1
50°-60°	1320.3	15.9
60°-70°	965.4	11.6
70°-80°	497.5	6.0
80°-90°	99.8	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°	2437.4	29.3
0°-40°	3939.1	47.3
0°-60°	6765.0	81.2
0°-90°	8327.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8327.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3242	3242	3242	3242	3242	
5°	3230	3208	3207	3228	3212	306
15°	3035	3040	3031	3051	3033	854
25°	2725	2737	2778	2817	2787	1255
35°	2344	2354	2420	2446	2430	1459
45°	1883	1891	1971	1996	1991	1451
55°	1408	1439	1491	1512	1500	1263
65°	941	963	994	991	975	931
75°	470	473	489	456	427	498
85°	83	82	80	64	58	109
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3242.2	3242.2	3242.2	3242.2	3242.2
2.5°	3258.2	3242.2	3220.9	3238.7	3235.1
5°	3229.8	3208.5	3206.7	3228.0	3212.1
7.5°	3194.3	3190.8	3169.5	3192.6	3183.7
10°	3148.2	3144.7	3137.6	3153.6	3141.2
12.5°	3093.3	3089.8	3093.3	3102.2	3093.3
15°	3034.8	3040.1	3031.3	3050.8	3033.0
17.5°	2956.8	2962.1	2979.8	2986.9	2985.2
20°	2893.0	2896.5	2917.8	2946.2	2916.0
22.5°	2809.7	2818.5	2829.2	2880.6	2873.5
25°	2724.6	2737.0	2777.8	2816.8	2786.6
27.5°	2635.9	2648.4	2698.0	2726.4	2722.8
30°	2540.2	2552.6	2614.7	2653.7	2635.9
32.5°	2441.0	2462.2	2529.6	2563.3	2529.6
35°	2343.5	2354.1	2419.7	2446.3	2430.3
37.5°	2214.1	2254.8	2320.4	2338.1	2309.8
40°	2116.6	2118.3	2212.3	2212.3	2210.5
42.5°	1990.7	2019.1	2081.1	2114.8	2097.1
45°	1882.6	1891.4	1971.2	1996.0	1990.7
47.5°	1763.8	1799.3	1857.8	1886.1	1871.9
50°	1646.8	1671.6	1731.9	1769.1	1754.9
52.5°	1538.7	1558.2	1620.2	1641.5	1627.3
55°	1407.5	1439.4	1490.8	1512.1	1499.7
57.5°	1294.0	1317.1	1380.9	1388.0	1380.9
60°	1175.3	1201.9	1253.3	1258.6	1244.4
62.5°	1061.8	1079.6	1125.6	1127.4	1111.5
65°	941.3	962.6	994.5	990.9	975.0
67.5°	822.5	836.7	866.8	854.4	836.7
70°	702.0	714.4	739.2	721.5	705.5
72.5°	585.0	593.8	615.1	588.5	569.0
75°	469.8	473.3	489.3	455.6	427.2
77.5°	356.3	359.9	368.7	335.0	303.1
80°	253.5	253.5	257.0	221.6	200.3
82.5°	159.5	159.5	157.8	131.2	118.8
85°	83.3	81.5	79.8	63.8	58.5
87.5°	30.1	30.1	24.8	23.0	24.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)