

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: P485126

Luminaire Tested: **ORLG-12-4-INS-A125-LD4-2HI-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: P485126
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-30-120-EDD-90
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

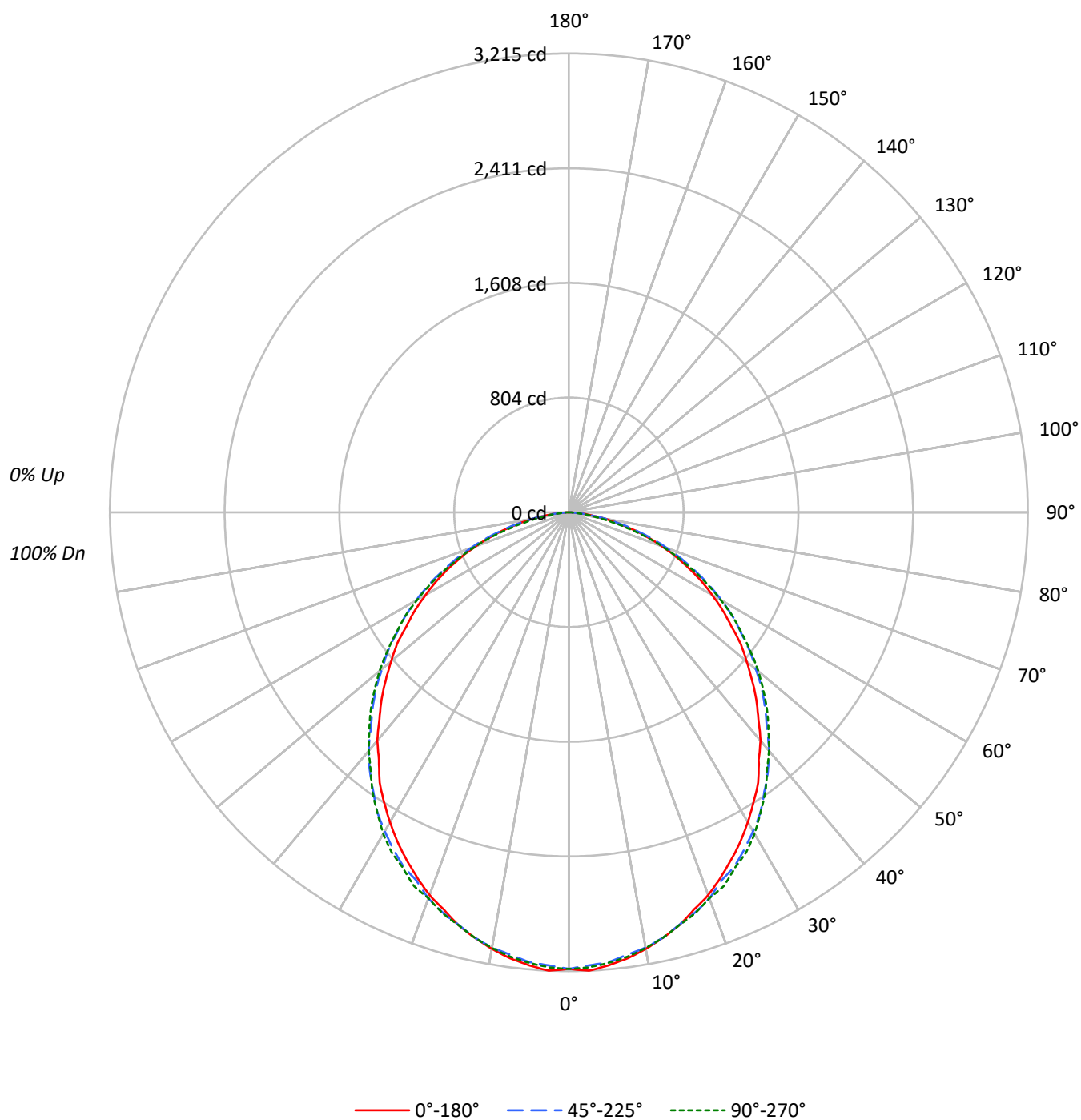
Lumens per Lamp: N/A
Luminaire Lumens: 8218.0 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8610	8610	8610
5°	8609	8548	8562
10°	8489	8460	8470
15°	8343	8333	8338
20°	8175	8245	8241
25°	7983	8139	8165
30°	7789	8017	8083
35°	7597	7844	7879
40°	7337	7669	7663
45°	7070	7403	7476
50°	6803	7155	7250
55°	6516	6902	6943
60°	6242	6656	6609
65°	5915	6249	6126
70°	5450	5740	5478
75°	4820	5020	4383
80°	3876	3930	3064
85°	2538	2430	1782



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.7	3.7
10°-20°	845.6	10.3
20°-30°	1259.0	15.3
30°-40°	1481.9	18.0
40°-50°	1485.8	18.1
50°-60°	1302.9	15.9
60°-70°	952.7	11.6
70°-80°	491.0	6.0
80°-90°	98.5	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°	2405.3	29.3
0°-40°	3887.2	47.3
0°-60°	6675.8	81.2
0°-90°	8218.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8218.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3200	3200	3200	3200	3200	
5°	3187	3166	3164	3186	3170	302
15°	2995	3000	2991	3010	2993	843
25°	2689	2701	2741	2780	2750	1238
35°	2313	2323	2388	2414	2398	1440
45°	1858	1866	1945	1970	1964	1432
55°	1389	1420	1471	1492	1480	1247
65°	929	950	981	978	962	919
75°	464	467	483	450	422	491
85°	82	80	79	63	58	107
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3199.5	3199.5	3199.5	3199.5	3199.5
2.5°	3215.2	3199.5	3178.5	3196.0	3192.5
5°	3187.2	3166.2	3164.5	3185.5	3169.7
7.5°	3152.2	3148.7	3127.7	3150.5	3141.7
10°	3106.7	3103.2	3096.2	3112.0	3099.7
12.5°	3052.5	3049.0	3052.5	3061.3	3052.5
15°	2994.8	3000.0	2991.3	3010.5	2993.0
17.5°	2917.8	2923.1	2940.6	2947.6	2945.8
20°	2854.8	2858.3	2879.3	2907.3	2877.6
22.5°	2772.6	2781.4	2791.9	2842.6	2835.6
25°	2688.7	2700.9	2741.1	2779.6	2749.9
27.5°	2601.2	2613.4	2662.4	2690.4	2686.9
30°	2506.7	2519.0	2580.2	2618.7	2601.2
32.5°	2408.8	2429.8	2496.2	2529.5	2496.2
35°	2312.6	2323.1	2387.8	2414.0	2398.3
37.5°	2184.9	2225.1	2289.8	2307.3	2279.3
40°	2088.7	2090.4	2183.1	2183.1	2181.4
42.5°	1964.5	1992.4	2053.7	2086.9	2069.4
45°	1857.7	1866.5	1945.2	1969.7	1964.5
47.5°	1740.5	1775.5	1833.3	1861.2	1847.3
50°	1625.1	1649.6	1709.1	1745.8	1731.8
52.5°	1518.4	1537.6	1598.9	1619.8	1605.8
55°	1388.9	1420.4	1471.2	1492.1	1479.9
57.5°	1277.0	1299.7	1362.7	1369.7	1362.7
60°	1159.8	1186.0	1236.7	1242.0	1228.0
62.5°	1047.8	1065.3	1110.8	1112.5	1096.8
65°	928.9	949.9	981.4	977.9	962.1
67.5°	811.7	825.7	855.4	843.2	825.7
70°	692.7	705.0	729.5	712.0	696.2
72.5°	577.3	586.0	607.0	580.8	561.5
75°	463.6	467.1	482.8	449.6	421.6
77.5°	351.6	355.1	363.9	330.6	299.1
80°	250.1	250.1	253.6	218.7	197.7
82.5°	157.4	157.4	155.7	129.4	117.2
85°	82.2	80.5	78.7	63.0	57.7
87.5°	29.7	29.7	24.5	22.7	24.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)