

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: P487295

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-5LO-20-120-EDD**

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: P487295
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-24-4-INS-A125-LD4-5LO-20-120-EDD
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

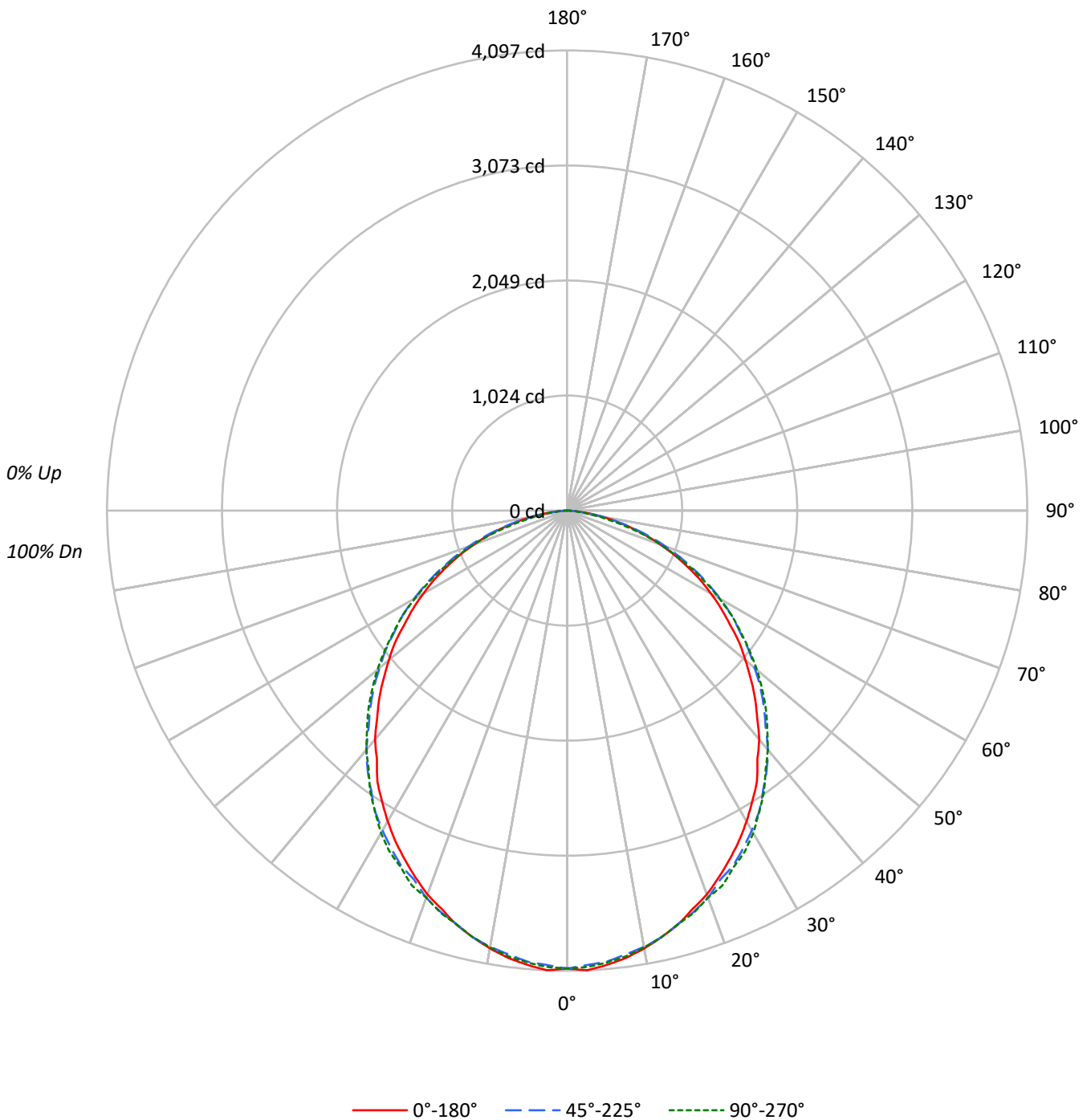
Lumens per Lamp: N/A
Luminaire Lumens: 10470.8 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 117
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°	5485	5485	5485
5°	5485	5446	5455
10°	5408	5390	5396
15°	5315	5309	5312
20°	5208	5253	5250
25°	5086	5185	5202
30°	4962	5108	5149
35°	4840	4997	5019
40°	4674	4886	4882
45°	4504	4716	4763
50°	4334	4558	4619
55°	4151	4397	4423
60°	3976	4240	4210
65°	3768	3981	3903
70°	3472	3656	3490
75°	3070	3198	2792
80°	2469	2504	1952
85°	1618	1548	1136



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	383.2	3.7
10°-20°	1077.4	10.3
20°-30°	1604.1	15.3
30°-40°	1888.1	18.0
40°-50°	1893.1	18.1
50°-60°	1660.0	15.9
60°-70°	1213.9	11.6
70°-80°	625.6	6.0
80°-90°	125.5	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°	3064.7	29.3
0°-40°	4952.7	47.3
0°-60°	8505.8	81.2
0°-90°	10470.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10470.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4076	4076	4076	4076	4076	
5°	4061	4034	4032	4059	4039	384
15°	3816	3822	3811	3836	3814	1074
25°	3426	3441	3493	3542	3504	1578
35°	2946	2960	3042	3076	3056	1835
45°	2367	2378	2478	2510	2503	1824
55°	1770	1810	1874	1901	1886	1589
65°	1184	1210	1250	1246	1226	1171
75°	591	595	615	573	537	626
85°	105	102	100	80	74	137
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4076.5	4076.5	4076.5	4076.5	4076.5
2.5°	4096.6	4076.5	4049.8	4072.1	4067.6
5°	4060.9	4034.2	4031.9	4058.7	4038.6
7.5°	4016.3	4011.9	3985.1	4014.1	4003.0
10°	3958.4	3953.9	3945.0	3965.1	3949.5
12.5°	3889.3	3884.8	3889.3	3900.4	3889.3
15°	3815.7	3822.4	3811.3	3835.8	3813.5
17.5°	3717.7	3724.4	3746.7	3755.6	3753.3
20°	3637.4	3641.9	3668.6	3704.3	3666.4
22.5°	3532.7	3543.8	3557.2	3621.8	3612.9
25°	3425.7	3441.3	3492.6	3541.6	3503.7
27.5°	3314.3	3329.9	3392.3	3427.9	3423.5
30°	3193.9	3209.5	3287.5	3336.5	3314.3
32.5°	3069.1	3095.8	3180.5	3222.9	3180.5
35°	2946.5	2959.9	3042.3	3075.8	3055.7
37.5°	2783.8	2835.1	2917.5	2939.8	2904.2
40°	2661.2	2663.4	2781.6	2781.6	2779.3
42.5°	2503.0	2538.6	2616.6	2659.0	2636.7
45°	2367.0	2378.2	2478.5	2509.7	2503.0
47.5°	2217.7	2262.3	2335.8	2371.5	2353.6
50°	2070.6	2101.8	2177.6	2224.4	2206.5
52.5°	1934.6	1959.1	2037.1	2063.9	2046.1
55°	1769.7	1809.8	1874.4	1901.2	1885.6
57.5°	1627.0	1656.0	1736.3	1745.2	1736.3
60°	1477.7	1511.1	1575.8	1582.5	1564.6
62.5°	1335.1	1357.4	1415.3	1417.5	1397.5
65°	1183.5	1210.3	1250.4	1245.9	1225.9
67.5°	1034.2	1052.0	1089.9	1074.3	1052.0
70°	882.6	898.2	929.4	907.1	887.1
72.5°	735.5	746.7	773.4	740.0	715.5
75°	590.6	595.1	615.2	572.8	537.1
77.5°	448.0	452.5	463.6	421.2	381.1
80°	318.7	318.7	323.2	278.6	251.9
82.5°	200.6	200.6	198.4	164.9	149.3
85°	104.8	102.5	100.3	80.2	73.6
87.5°	37.9	37.9	31.2	29.0	31.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)