

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: P487263

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-4LO-30-120-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: P487263
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-LD4-4LO-30-120-EDD
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

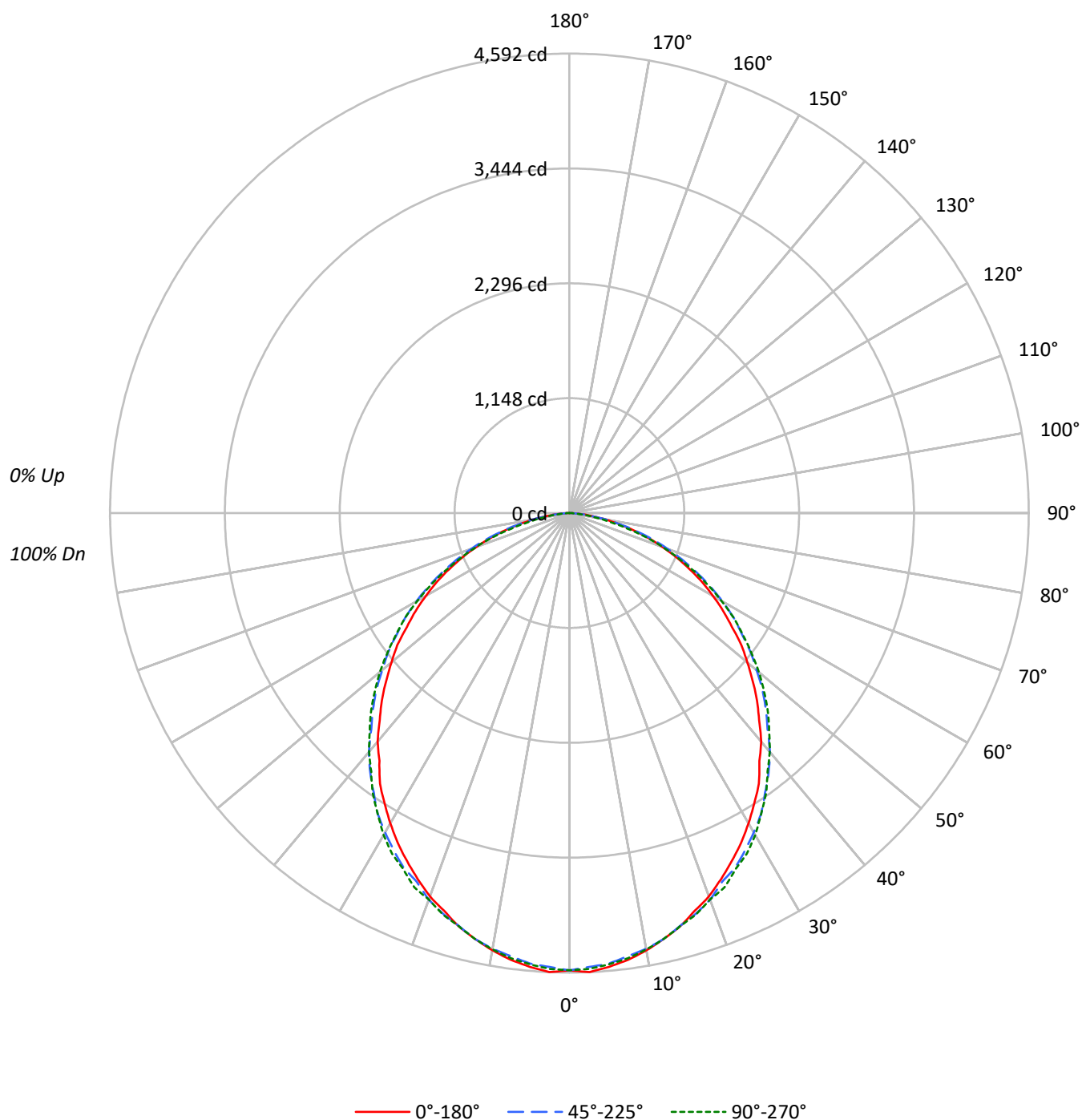
Lumens per Lamp: N/A
Luminaire Lumens: 11736.7 lumens
Efficiency: N/A
Efficacy: 125.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 93.6
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°	6148	6148	6148
5°	6148	6104	6114
10°	6062	6042	6048
15°	5958	5951	5954
20°	5838	5888	5884
25°	5701	5812	5830
30°	5562	5725	5772
35°	5425	5601	5626
40°	5239	5476	5472
45°	5049	5286	5339
50°	4858	5109	5177
55°	4653	4929	4958
60°	4457	4753	4719
65°	4223	4462	4375
70°	3892	4098	3912
75°	3441	3584	3130
80°	2768	2807	2187
85°	1812	1735	1272



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	429.5	3.7
10°-20°	1207.7	10.3
20°-30°	1798.0	15.3
30°-40°	2116.4	18.0
40°-50°	2121.9	18.1
50°-60°	1860.7	15.9
60°-70°	1360.6	11.6
70°-80°	701.2	6.0
80°-90°	140.7	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°	3435.2	29.3
0°-40°	5551.5	47.3
0°-60°	9534.2	81.2
0°-90°	11736.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11736.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4569	4569	4569	4569	4569	
5°	4552	4522	4519	4549	4527	431
15°	4277	4285	4272	4300	4275	1204
25°	3840	3857	3915	3970	3927	1769
35°	3303	3318	3410	3448	3425	2057
45°	2653	2666	2778	2813	2806	2045
55°	1984	2029	2101	2131	2114	1781
65°	1327	1357	1402	1396	1374	1312
75°	662	667	690	642	602	702
85°	117	115	112	90	82	153
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4569.4	4569.4	4569.4	4569.4	4569.4
2.5°	4591.8	4569.4	4539.4	4564.4	4559.4
5°	4551.9	4521.9	4519.4	4549.4	4526.9
7.5°	4501.9	4496.9	4466.9	4499.4	4486.9
10°	4437.0	4432.0	4422.0	4444.4	4427.0
12.5°	4359.5	4354.5	4359.5	4372.0	4359.5
15°	4277.1	4284.6	4272.1	4299.5	4274.6
17.5°	4167.1	4174.6	4199.6	4209.6	4207.1
20°	4077.2	4082.2	4112.2	4152.1	4109.7
22.5°	3959.8	3972.3	3987.3	4059.7	4049.7
25°	3839.9	3857.3	3914.8	3969.8	3927.3
27.5°	3714.9	3732.4	3802.4	3842.4	3837.4
30°	3580.0	3597.5	3685.0	3739.9	3714.9
32.5°	3440.1	3470.1	3565.1	3612.5	3565.1
35°	3302.7	3317.7	3410.2	3447.6	3425.1
37.5°	3120.4	3177.8	3270.3	3295.2	3255.3
40°	2983.0	2985.4	3117.9	3117.9	3115.4
42.5°	2805.6	2845.5	2933.0	2980.5	2955.5
45°	2653.2	2665.7	2778.1	2813.1	2805.6
47.5°	2485.8	2535.8	2618.2	2658.2	2638.2
50°	2320.9	2355.9	2440.8	2493.3	2473.3
52.5°	2168.5	2196.0	2283.4	2313.4	2293.4
55°	1983.6	2028.6	2101.1	2131.0	2113.5
57.5°	1823.7	1856.2	1946.2	1956.2	1946.2
60°	1656.4	1693.8	1766.3	1773.8	1753.8
62.5°	1496.5	1521.5	1586.4	1588.9	1566.4
65°	1326.6	1356.6	1401.5	1396.5	1374.1
67.5°	1159.2	1179.2	1221.7	1204.2	1179.2
70°	989.3	1006.8	1041.8	1016.8	994.3
72.5°	824.4	836.9	866.9	829.4	801.9
75°	662.0	667.0	689.5	642.1	602.1
77.5°	502.2	507.2	519.6	472.2	427.2
80°	357.3	357.3	362.3	312.3	282.3
82.5°	224.8	224.8	222.3	184.9	167.4
85°	117.4	114.9	112.4	89.9	82.4
87.5°	42.5	42.5	35.0	32.5	35.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)