

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: P487183

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-2HI-40-120-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: P487183
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-LD4-2HI-40-120-EDD
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

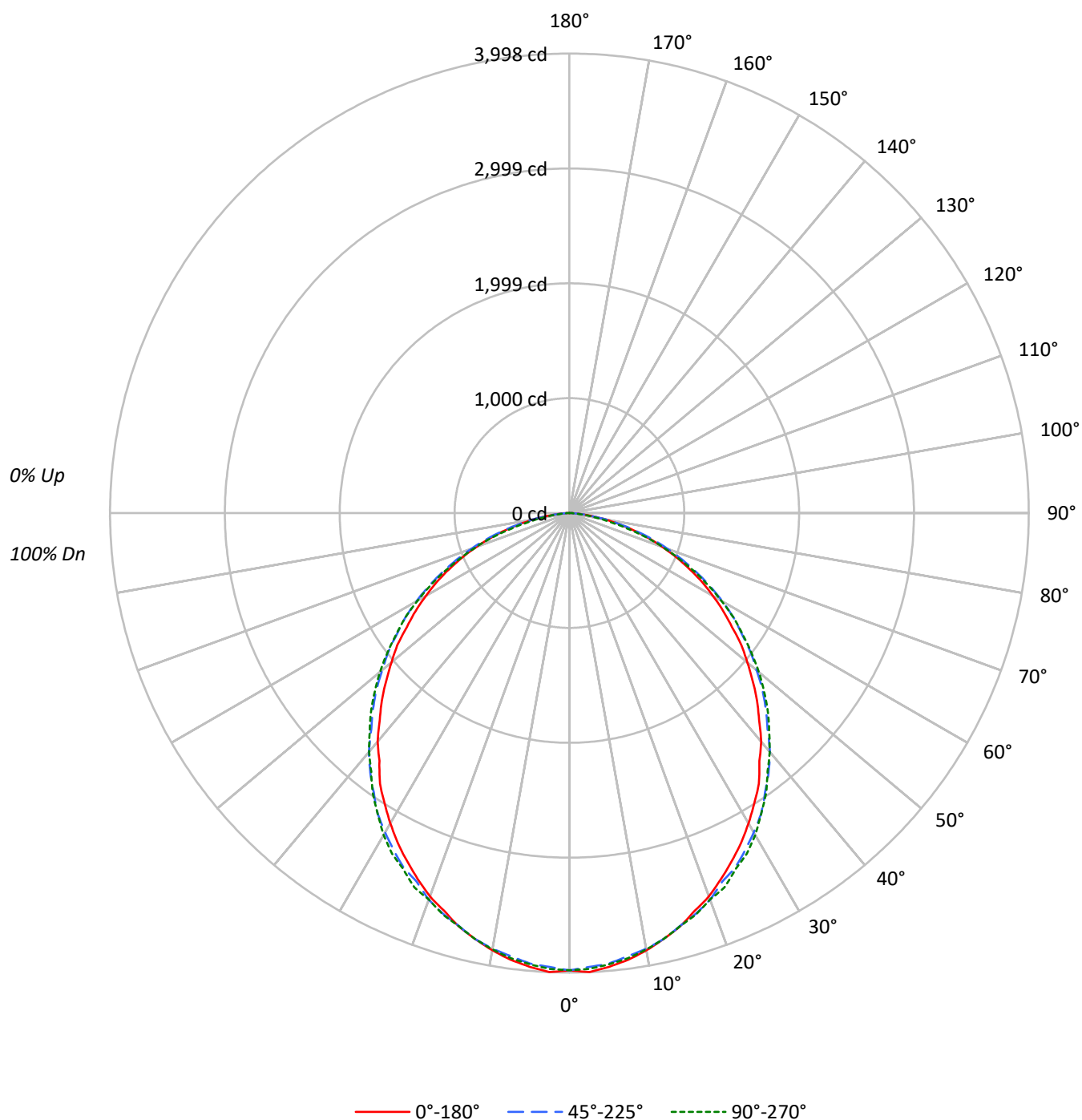
Lumens per Lamp: N/A
Luminaire Lumens: 10218.4 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	5353	5353	5353
5°	5353	5314	5323
10°	5278	5260	5266
15°	5187	5181	5184
20°	5083	5126	5123
25°	4963	5060	5076
30°	4843	4985	5025
35°	4723	4877	4898
40°	4562	4768	4764
45°	4395	4602	4648
50°	4230	4448	4507
55°	4051	4291	4316
60°	3881	4138	4109
65°	3677	3885	3809
70°	3388	3568	3406
75°	2996	3121	2725
80°	2410	2444	1905
85°	1578	1511	1108



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	373.9	3.7
10°-20°	1051.4	10.3
20°-30°	1565.4	15.3
30°-40°	1842.6	18.0
40°-50°	1847.4	18.1
50°-60°	1620.0	15.9
60°-70°	1184.6	11.6
70°-80°	610.5	6.0
80°-90°	122.5	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°	2990.8	29.3
0°-40°	4833.4	47.3
0°-60°	8300.8	81.2
0°-90°	10218.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10218.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3978	3978	3978	3978	3978	
5°	3963	3937	3935	3961	3941	375
15°	3724	3730	3719	3743	3722	1048
25°	3343	3358	3408	3456	3419	1540
35°	2876	2888	2969	3002	2982	1791
45°	2310	2321	2419	2449	2443	1780
55°	1727	1766	1829	1855	1840	1550
65°	1155	1181	1220	1216	1196	1142
75°	576	581	600	559	524	611
85°	102	100	98	78	72	133
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3978.3	3978.3	3978.3	3978.3	3978.3
2.5°	3997.8	3978.3	3952.2	3973.9	3969.6
5°	3963.0	3936.9	3934.8	3960.9	3941.3
7.5°	3919.5	3915.2	3889.1	3917.3	3906.5
10°	3863.0	3858.6	3849.9	3869.5	3854.3
12.5°	3795.5	3791.2	3795.5	3806.4	3795.5
15°	3723.8	3730.3	3719.4	3743.3	3721.6
17.5°	3628.1	3634.6	3656.3	3665.0	3662.9
20°	3549.8	3554.1	3580.2	3615.0	3578.0
22.5°	3447.5	3458.4	3471.5	3534.5	3525.8
25°	3343.1	3358.3	3408.4	3456.2	3419.3
27.5°	3234.4	3249.6	3310.5	3345.3	3340.9
30°	3116.9	3132.1	3208.3	3256.1	3234.4
32.5°	2995.1	3021.2	3103.9	3145.2	3103.9
35°	2875.5	2888.5	2969.0	3001.6	2982.1
37.5°	2716.7	2766.7	2847.2	2869.0	2834.2
40°	2597.1	2599.2	2714.5	2714.5	2712.3
42.5°	2442.6	2477.4	2553.6	2594.9	2573.1
45°	2310.0	2320.8	2418.7	2449.2	2442.6
47.5°	2164.2	2207.7	2279.5	2314.3	2296.9
50°	2020.7	2051.1	2125.1	2170.7	2153.3
52.5°	1888.0	1911.9	1988.0	2014.1	1996.7
55°	1727.0	1766.2	1829.3	1855.4	1840.1
57.5°	1587.8	1616.1	1694.4	1703.1	1694.4
60°	1442.1	1474.7	1537.8	1544.3	1526.9
62.5°	1302.9	1324.6	1381.2	1383.4	1363.8
65°	1155.0	1181.1	1220.2	1215.9	1196.3
67.5°	1009.2	1026.6	1063.6	1048.4	1026.6
70°	861.3	876.6	907.0	885.3	865.7
72.5°	717.8	728.7	754.8	722.1	698.2
75°	576.4	580.8	600.3	559.0	524.2
77.5°	437.2	441.5	452.4	411.1	371.9
80°	311.0	311.0	315.4	271.9	245.8
82.5°	195.8	195.8	193.6	161.0	145.7
85°	102.2	100.1	97.9	78.3	71.8
87.5°	37.0	37.0	30.5	28.3	30.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)