

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: P487286

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-5HI-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: P487286
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-LD4-5HI-30-120-EDD-90
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

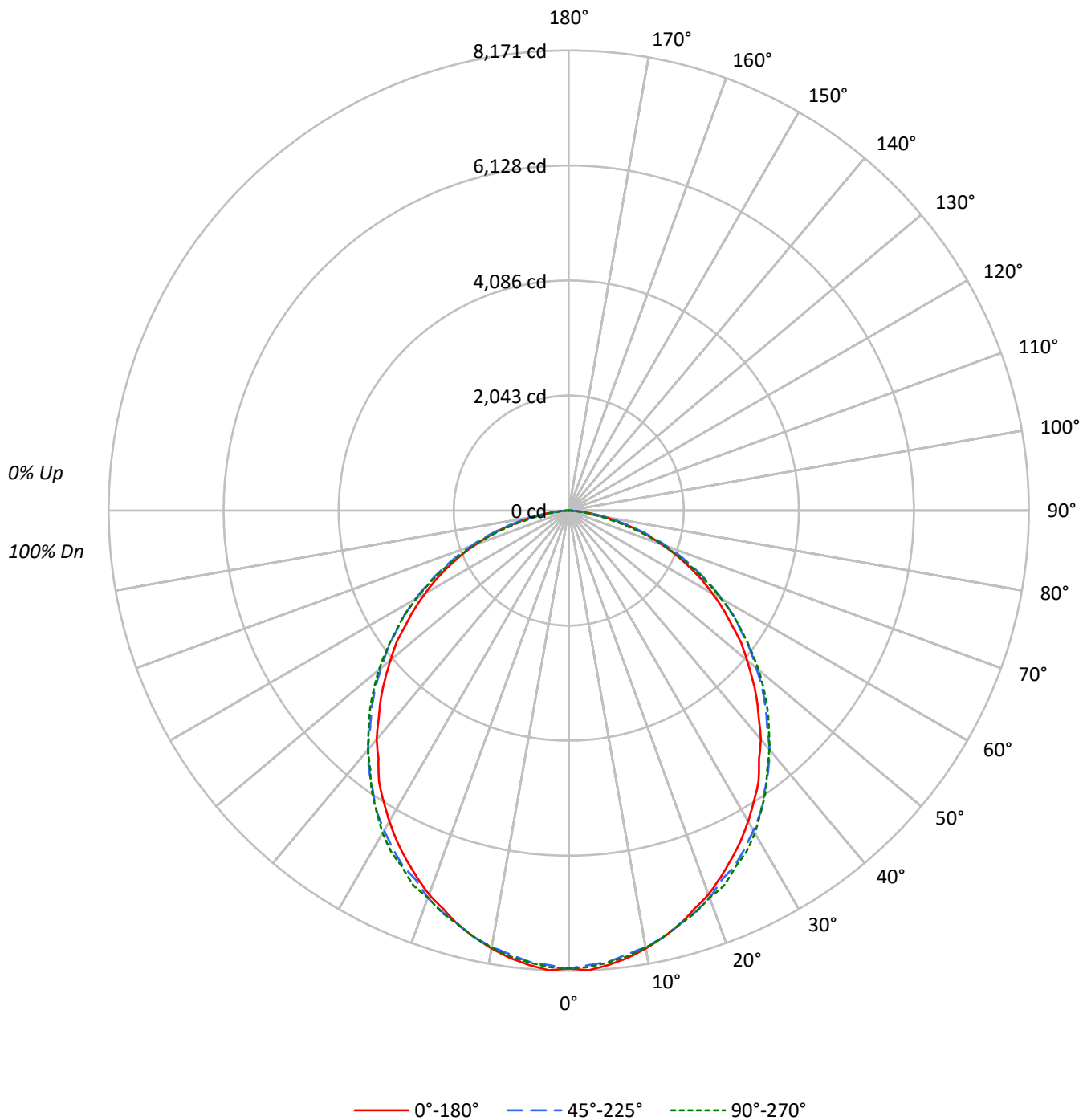
Lumens per Lamp: N/A
Luminaire Lumens: 20884.9 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 220
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°	10940	10940	10940
5°	10940	10862	10880
10°	10787	10751	10763
15°	10601	10589	10595
20°	10388	10477	10471
25°	10144	10342	10375
30°	9897	10188	10270
35°	9653	9967	10011
40°	9323	9745	9737
45°	8984	9407	9500
50°	8645	9091	9212
55°	8280	8770	8823
60°	7931	8458	8398
65°	7515	7940	7784
70°	6925	7293	6960
75°	6124	6379	5570
80°	4926	4995	3893
85°	3225	3089	2265



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	764.3	3.7
10°-20°	2149.0	10.3
20°-30°	3199.5	15.3
30°-40°	3766.0	18.0
40°-50°	3775.9	18.1
50°-60°	3311.1	15.9
60°-70°	2421.2	11.6
70°-80°	1247.8	6.0
80°-90°	250.3	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°	6112.7	29.3
0°-40°	9878.7	47.3
0°-60°	16965.6	81.2
0°-90°	20884.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20884.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8131	8131	8131	8131	8131	
5°	8100	8046	8042	8095	8055	767
15°	7611	7624	7602	7651	7606	2142
25°	6833	6864	6966	7064	6988	3147
35°	5877	5904	6068	6135	6095	3660
45°	4721	4743	4944	5006	4992	3638
55°	3530	3610	3739	3792	3761	3168
65°	2361	2414	2494	2485	2445	2335
75°	1178	1187	1227	1142	1071	1248
85°	209	204	200	160	147	273
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8131.0	8131.0	8131.0	8131.0	8131.0
2.5°	8171.0	8131.0	8077.6	8122.1	8113.2
5°	8099.8	8046.5	8042.0	8095.4	8055.4
7.5°	8010.9	8002.0	7948.7	8006.5	7984.3
10°	7895.3	7886.5	7868.7	7908.7	7877.6
12.5°	7757.5	7748.6	7757.5	7779.8	7757.5
15°	7610.8	7624.2	7601.9	7650.8	7606.4
17.5°	7415.2	7428.6	7473.0	7490.8	7486.4
20°	7255.2	7264.1	7317.4	7388.5	7313.0
22.5°	7046.2	7068.5	7095.1	7224.1	7206.3
25°	6832.9	6864.0	6966.2	7064.0	6988.4
27.5°	6610.6	6641.7	6766.2	6837.3	6828.4
30°	6370.5	6401.6	6557.2	6655.0	6610.6
32.5°	6121.6	6174.9	6343.8	6428.3	6343.8
35°	5877.1	5903.7	6068.2	6134.9	6094.9
37.5°	5552.5	5654.8	5819.3	5863.7	5792.6
40°	5308.0	5312.5	5548.1	5548.1	5543.6
42.5°	4992.4	5063.5	5219.1	5303.6	5259.1
45°	4721.2	4743.4	4943.5	5005.7	4992.4
47.5°	4423.3	4512.3	4659.0	4730.1	4694.5
50°	4129.9	4192.2	4343.3	4436.7	4401.1
52.5°	3858.8	3907.7	4063.3	4116.6	4081.0
55°	3529.8	3609.8	3738.7	3792.1	3761.0
57.5°	3245.3	3303.1	3463.1	3480.9	3463.1
60°	2947.4	3014.1	3143.0	3156.4	3120.8
62.5°	2662.9	2707.4	2822.9	2827.4	2787.4
65°	2360.6	2413.9	2494.0	2485.1	2445.1
67.5°	2062.7	2098.3	2173.9	2142.8	2098.3
70°	1760.4	1791.6	1853.8	1809.3	1769.3
72.5°	1467.0	1489.3	1542.6	1475.9	1427.0
75°	1178.1	1187.0	1227.0	1142.5	1071.4
77.5°	893.6	902.5	924.7	840.2	760.2
80°	635.7	635.7	644.6	555.7	502.4
82.5°	400.1	400.1	395.7	329.0	297.9
85°	208.9	204.5	200.1	160.0	146.7
87.5°	75.6	75.6	62.2	57.8	62.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)