

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: P486054

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-6STD-40-120-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: P486054
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-24-2-INS-A125-LD4-6STD-40-120-EDD-90
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

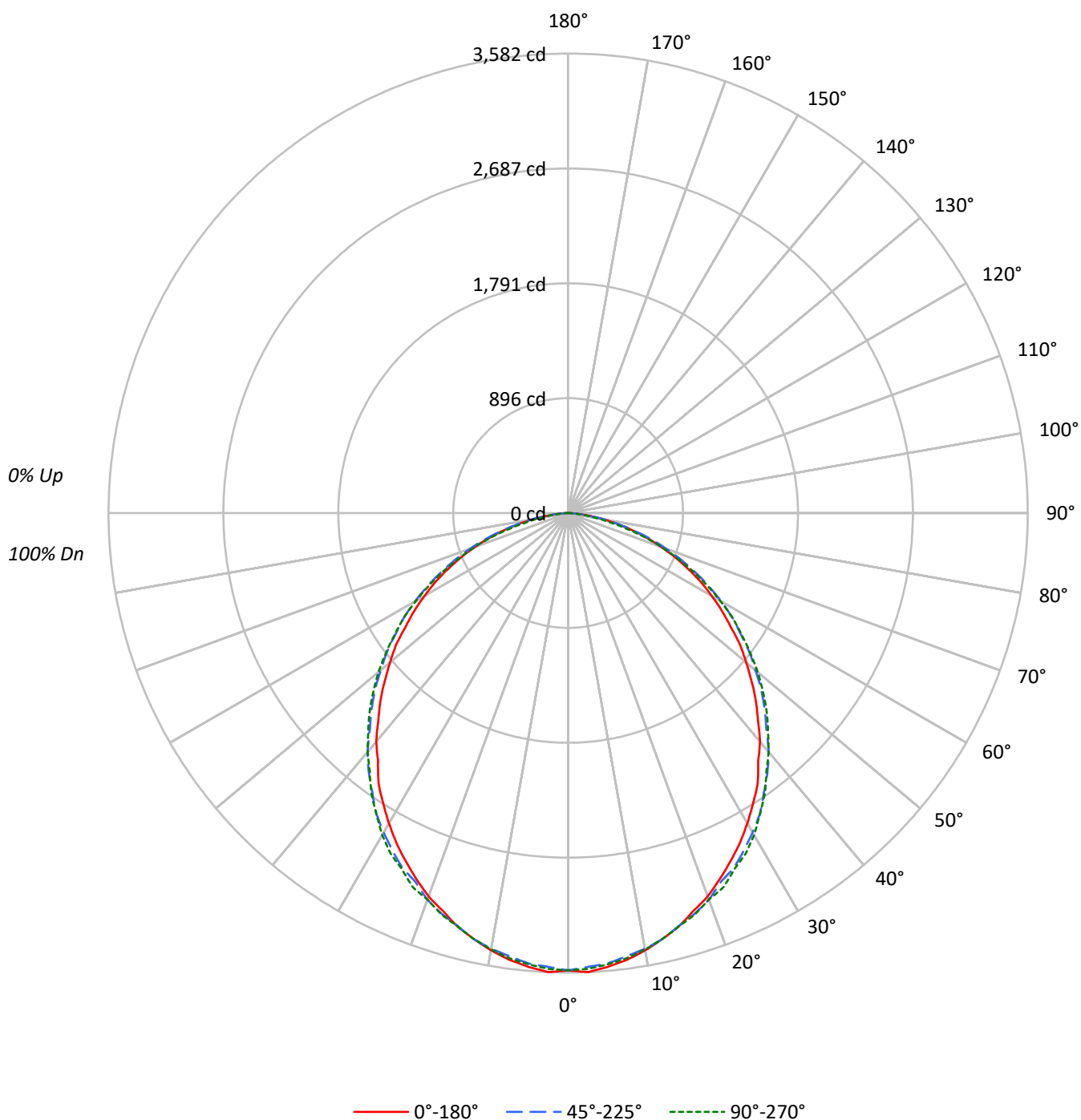
Lumens per Lamp: N/A
Luminaire Lumens: 9155.2 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 99.9
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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	105	101	97	107	102	99	95	98	95	92		94	92	90		91
2	100	92	85	79	97	90	84	79	86	81	77		83	79	75		80
3	91	81	73	66	89	79	72	66	76	70	65		73	68	64		71
4	83	72	63	57	81	70	62	56	68	61	55		66	59	55		63
5	77	64	55	49	75	63	55	49	61	54	48		59	53	48		57
6	71	58	49	43	69	57	49	43	55	48	42		53	47	42		52
7	66	53	44	38	64	52	44	38	50	43	37		49	42	37		47
8	61	48	40	34	60	47	39	34	46	39	34		45	38	33		44
9	57	44	36	31	56	44	36	30	42	35	30		41	35	30		40
10	54	41	33	28	53	40	33	28	39	32	28		38	32	27		37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9591	9591	9591
5°	9591	9523	9539
10°	9457	9425	9436
15°	9295	9284	9289
20°	9108	9186	9180
25°	8894	9067	9096
30°	8677	8932	9004
35°	8463	8739	8777
40°	8174	8544	8537
45°	7876	8247	8329
50°	7579	7971	8077
55°	7259	7689	7735
60°	6953	7415	7363
65°	6589	6961	6825
70°	6072	6393	6102
75°	5369	5593	4884
80°	4319	4379	3412
85°	2828	2708	1985



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	335.0	3.7
10°-20°	942.0	10.3
20°-30°	1402.5	15.3
30°-40°	1650.9	18.0
40°-50°	1655.2	18.1
50°-60°	1451.5	15.9
60°-70°	1061.4	11.6
70°-80°	547.0	6.0
80°-90°	109.7	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°	2679.6	29.3
0°-40°	4330.5	47.3
0°-60°	7437.1	81.2
0°-90°	9155.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9155.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3564	3564	3564	3564	3564	
5°	3551	3527	3525	3549	3531	336
15°	3336	3342	3332	3354	3334	939
25°	2995	3009	3054	3097	3064	1380
35°	2576	2588	2660	2689	2672	1604
45°	2070	2079	2167	2194	2188	1595
55°	1547	1582	1639	1662	1649	1389
65°	1035	1058	1093	1089	1072	1024
75°	516	520	538	501	470	547
85°	92	90	88	70	64	119
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3564.3	3564.3	3564.3	3564.3	3564.3
2.5°	3581.9	3564.3	3540.9	3560.4	3556.5
5°	3550.7	3527.3	3525.3	3548.7	3531.2
7.5°	3511.7	3507.8	3484.4	3509.8	3500.0
10°	3461.0	3457.1	3449.3	3466.9	3453.2
12.5°	3400.6	3396.7	3400.6	3410.4	3400.6
15°	3336.3	3342.2	3332.4	3353.9	3334.4
17.5°	3250.6	3256.4	3275.9	3283.7	3281.8
20°	3180.4	3184.3	3207.7	3238.9	3205.7
22.5°	3088.8	3098.6	3110.3	3166.8	3159.0
25°	2995.3	3008.9	3053.7	3096.6	3063.5
27.5°	2897.8	2911.5	2966.0	2997.2	2993.3
30°	2792.6	2806.2	2874.5	2917.3	2897.8
32.5°	2683.5	2706.9	2780.9	2817.9	2780.9
35°	2576.3	2588.0	2660.1	2689.3	2671.8
37.5°	2434.0	2478.9	2551.0	2570.4	2539.3
40°	2326.8	2328.8	2432.1	2432.1	2430.1
42.5°	2188.5	2219.7	2287.9	2324.9	2305.4
45°	2069.6	2079.4	2167.0	2194.3	2188.5
47.5°	1939.0	1978.0	2042.3	2073.5	2057.9
50°	1810.4	1837.7	1904.0	1944.9	1929.3
52.5°	1691.5	1713.0	1781.2	1804.6	1789.0
55°	1547.3	1582.4	1638.9	1662.3	1648.7
57.5°	1422.6	1447.9	1518.1	1525.9	1518.1
60°	1292.0	1321.3	1377.8	1383.6	1368.0
62.5°	1167.3	1186.8	1237.5	1239.4	1221.9
65°	1034.8	1058.2	1093.3	1089.4	1071.8
67.5°	904.2	919.8	953.0	939.3	919.8
70°	771.7	785.4	812.6	793.2	775.6
72.5°	643.1	652.8	676.2	647.0	625.6
75°	516.4	520.3	537.9	500.8	469.7
77.5°	391.7	395.6	405.3	368.3	333.2
80°	278.7	278.7	282.6	243.6	220.2
82.5°	175.4	175.4	173.4	144.2	130.6
85°	91.6	89.6	87.7	70.2	64.3
87.5°	33.1	33.1	27.3	25.3	27.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)