

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: P486019

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-5STD-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: P486019
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-LD4-5STD-40-120-EDD
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

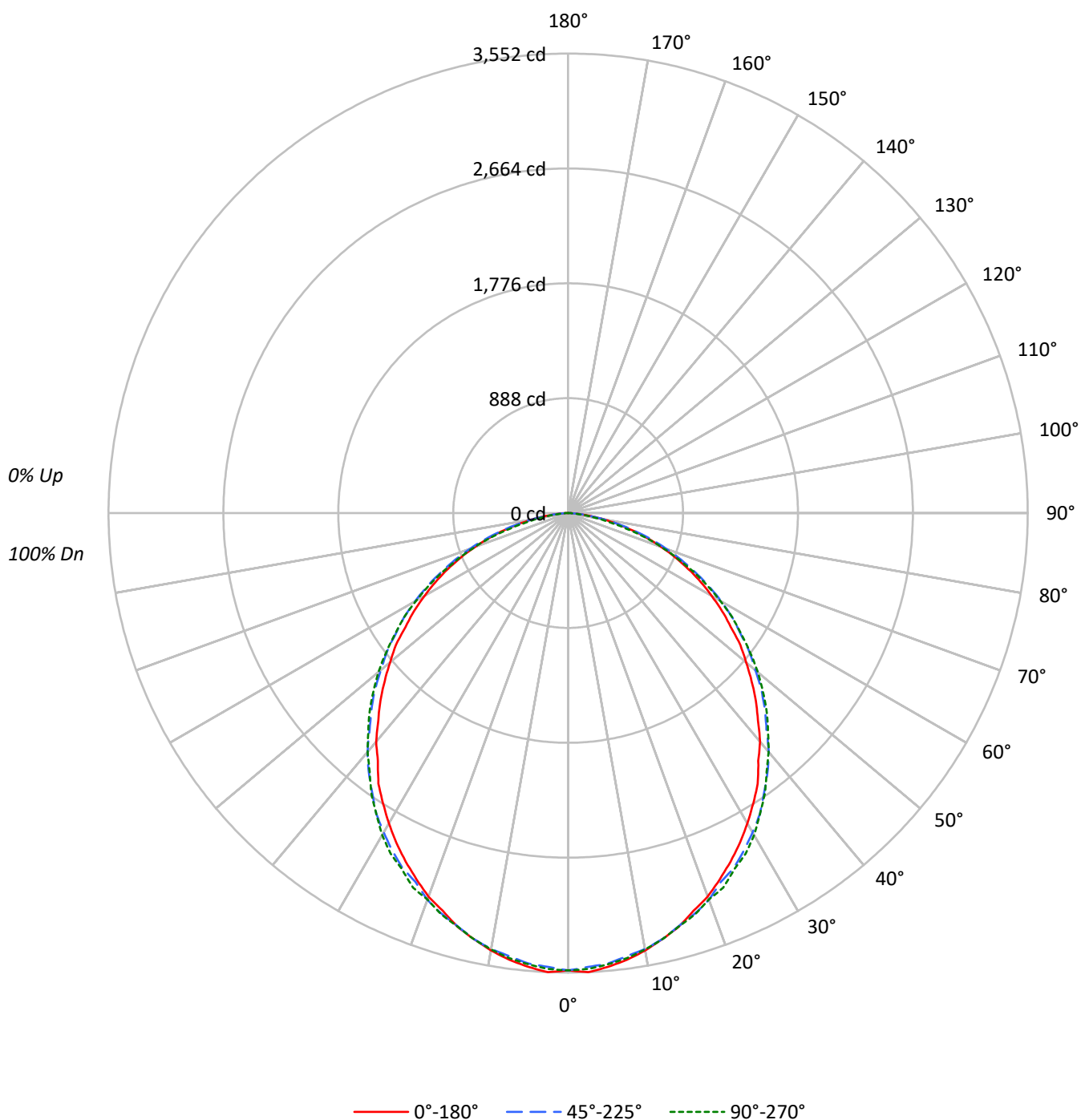
Lumens per Lamp: N/A
Luminaire Lumens: 9080.1 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 83.2
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	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°	9513	9513	9513
5°	9513	9445	9460
10°	9380	9348	9359
15°	9218	9208	9213
20°	9033	9111	9105
25°	8821	8993	9022
30°	8606	8859	8931
35°	8394	8667	8705
40°	8107	8473	8467
45°	7811	8179	8260
50°	7517	7905	8011
55°	7200	7626	7671
60°	6896	7354	7302
65°	6535	6904	6769
70°	6022	6342	6053
75°	5325	5547	4843
80°	4283	4344	3384
85°	2803	2686	1970



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	332.3	3.7
10°-20°	934.3	10.3
20°-30°	1391.0	15.3
30°-40°	1637.3	18.0
40°-50°	1641.6	18.1
50°-60°	1439.6	15.9
60°-70°	1052.6	11.6
70°-80°	542.5	6.0
80°-90°	108.9	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°	2657.6	29.3
0°-40°	4294.9	47.3
0°-60°	7376.1	81.2
0°-90°	9080.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9080.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3535	3535	3535	3535	3535	
5°	3522	3498	3496	3520	3502	333
15°	3309	3315	3305	3326	3307	931
25°	2971	2984	3029	3071	3038	1368
35°	2555	2567	2638	2667	2650	1591
45°	2053	2062	2149	2176	2170	1582
55°	1535	1569	1626	1649	1635	1378
65°	1026	1050	1084	1080	1063	1015
75°	512	516	534	497	466	543
85°	91	89	87	70	64	119
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3535.1	3535.1	3535.1	3535.1	3535.1
2.5°	3552.5	3535.1	3511.9	3531.2	3527.4
5°	3521.6	3498.4	3496.4	3519.6	3502.2
7.5°	3482.9	3479.0	3455.8	3481.0	3471.3
10°	3432.6	3428.8	3421.1	3438.4	3424.9
12.5°	3372.7	3368.9	3372.7	3382.4	3372.7
15°	3308.9	3314.7	3305.1	3326.3	3307.0
17.5°	3223.9	3229.7	3249.0	3256.8	3254.8
20°	3154.3	3158.2	3181.4	3212.3	3179.5
22.5°	3063.5	3073.1	3084.7	3140.8	3133.1
25°	2970.7	2984.2	3028.7	3071.2	3038.4
27.5°	2874.1	2887.6	2941.7	2972.6	2968.8
30°	2769.7	2783.2	2850.9	2893.4	2874.1
32.5°	2661.5	2684.7	2758.1	2794.8	2758.1
35°	2555.2	2566.8	2638.3	2667.3	2649.9
37.5°	2414.1	2458.5	2530.0	2549.4	2518.4
40°	2307.8	2309.7	2412.1	2412.1	2410.2
42.5°	2170.5	2201.5	2269.1	2305.8	2286.5
45°	2052.6	2062.3	2149.3	2176.3	2170.5
47.5°	1923.1	1961.8	2025.6	2056.5	2041.0
50°	1795.6	1822.6	1888.3	1928.9	1913.5
52.5°	1677.7	1698.9	1766.6	1789.8	1774.3
55°	1534.6	1569.4	1625.5	1648.7	1635.1
57.5°	1410.9	1436.1	1505.6	1513.4	1505.6
60°	1281.4	1310.4	1366.5	1372.3	1356.8
62.5°	1157.7	1177.1	1227.3	1229.3	1211.9
65°	1026.3	1049.5	1084.3	1080.4	1063.0
67.5°	896.8	912.3	945.1	931.6	912.3
70°	765.4	778.9	806.0	786.6	769.3
72.5°	637.8	647.5	670.7	641.7	620.4
75°	512.2	516.1	533.5	496.7	465.8
77.5°	388.5	392.4	402.0	365.3	330.5
80°	276.4	276.4	280.3	241.6	218.4
82.5°	174.0	174.0	172.0	143.0	129.5
85°	90.8	88.9	87.0	69.6	63.8
87.5°	32.9	32.9	27.1	25.1	27.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)