

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: P487229

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-3LO-35-120-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: P487229
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-LD4-3LO-35-120-EDD
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

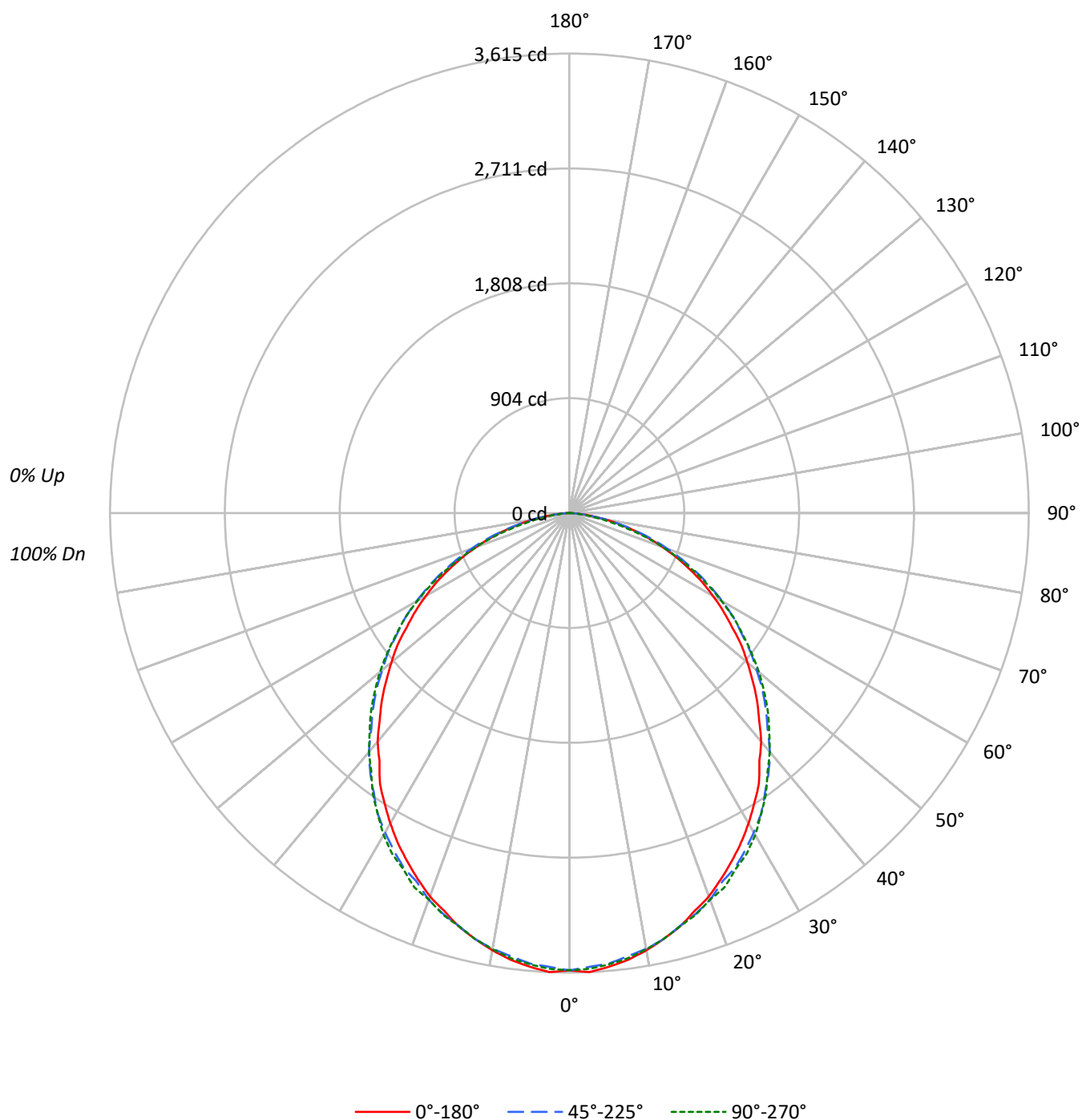
Lumens per Lamp: N/A
Luminaire Lumens: 9239.0 lumens
Efficiency: N/A
Efficacy: 131.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 70.2
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
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°	4840	4840	4840
5°	4840	4805	4813
10°	4772	4756	4761
15°	4690	4684	4687
20°	4595	4635	4632
25°	4487	4575	4590
30°	4378	4507	4543
35°	4270	4409	4429
40°	4124	4311	4307
45°	3974	4161	4202
50°	3824	4022	4075
55°	3663	3880	3903
60°	3509	3742	3715
65°	3325	3513	3443
70°	3064	3226	3079
75°	2709	2822	2464
80°	2179	2210	1722
85°	1426	1366	1002



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.1	3.7
10°-20°	950.7	10.3
20°-30°	1415.4	15.3
30°-40°	1666.0	18.0
40°-50°	1670.4	18.1
50°-60°	1464.8	15.9
60°-70°	1071.1	11.6
70°-80°	552.0	6.0
80°-90°	110.7	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°	2704.1	29.3
0°-40°	4370.1	47.3
0°-60°	7505.2	81.2
0°-90°	9239.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9239.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3597	3597	3597	3597	3597	
5°	3583	3560	3558	3581	3564	339
15°	3367	3373	3363	3385	3365	948
25°	3023	3036	3082	3125	3092	1392
35°	2600	2612	2684	2714	2696	1619
45°	2089	2098	2187	2214	2208	1610
55°	1562	1597	1654	1678	1664	1402
65°	1044	1068	1103	1099	1082	1033
75°	521	525	543	505	474	552
85°	92	90	88	71	65	121
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3596.9	3596.9	3596.9	3596.9	3596.9
2.5°	3614.6	3596.9	3573.4	3593.0	3589.1
5°	3583.2	3559.6	3557.6	3581.2	3563.5
7.5°	3543.9	3539.9	3516.3	3541.9	3532.1
10°	3492.7	3488.8	3480.9	3498.6	3484.9
12.5°	3431.8	3427.8	3431.8	3441.6	3431.8
15°	3366.9	3372.8	3362.9	3384.6	3364.9
17.5°	3280.3	3286.2	3305.9	3313.8	3311.8
20°	3209.5	3213.5	3237.1	3268.5	3235.1
22.5°	3117.1	3126.9	3138.7	3195.8	3187.9
25°	3022.7	3036.5	3081.7	3125.0	3091.5
27.5°	2924.4	2938.1	2993.2	3024.7	3020.7
30°	2818.2	2831.9	2900.8	2944.0	2924.4
32.5°	2708.0	2731.6	2806.4	2843.7	2806.4
35°	2599.9	2611.7	2684.4	2713.9	2696.2
37.5°	2456.3	2501.5	2574.3	2594.0	2562.5
40°	2348.1	2350.1	2454.3	2454.3	2452.4
42.5°	2208.5	2240.0	2308.8	2346.2	2326.5
45°	2088.6	2098.4	2186.9	2214.4	2208.5
47.5°	1956.8	1996.1	2061.0	2092.5	2076.8
50°	1827.0	1854.5	1921.4	1962.7	1947.0
52.5°	1707.0	1728.7	1797.5	1821.1	1805.4
55°	1561.5	1596.9	1653.9	1677.5	1663.8
57.5°	1435.6	1461.2	1532.0	1539.9	1532.0
60°	1303.9	1333.4	1390.4	1396.3	1380.6
62.5°	1178.0	1197.7	1248.8	1250.8	1233.1
65°	1044.3	1067.9	1103.3	1099.3	1081.6
67.5°	912.5	928.2	961.7	947.9	928.2
70°	778.8	792.5	820.1	800.4	782.7
72.5°	649.0	658.8	682.4	652.9	631.3
75°	521.2	525.1	542.8	505.4	474.0
77.5°	395.3	399.2	409.1	371.7	336.3
80°	281.2	281.2	285.2	245.8	222.2
82.5°	177.0	177.0	175.0	145.5	131.8
85°	92.4	90.5	88.5	70.8	64.9
87.5°	33.4	33.4	27.5	25.6	27.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)