

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: P487236

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-3STD-27-120-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: P487236
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-LD4-3STD-27-120-EDD-90
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

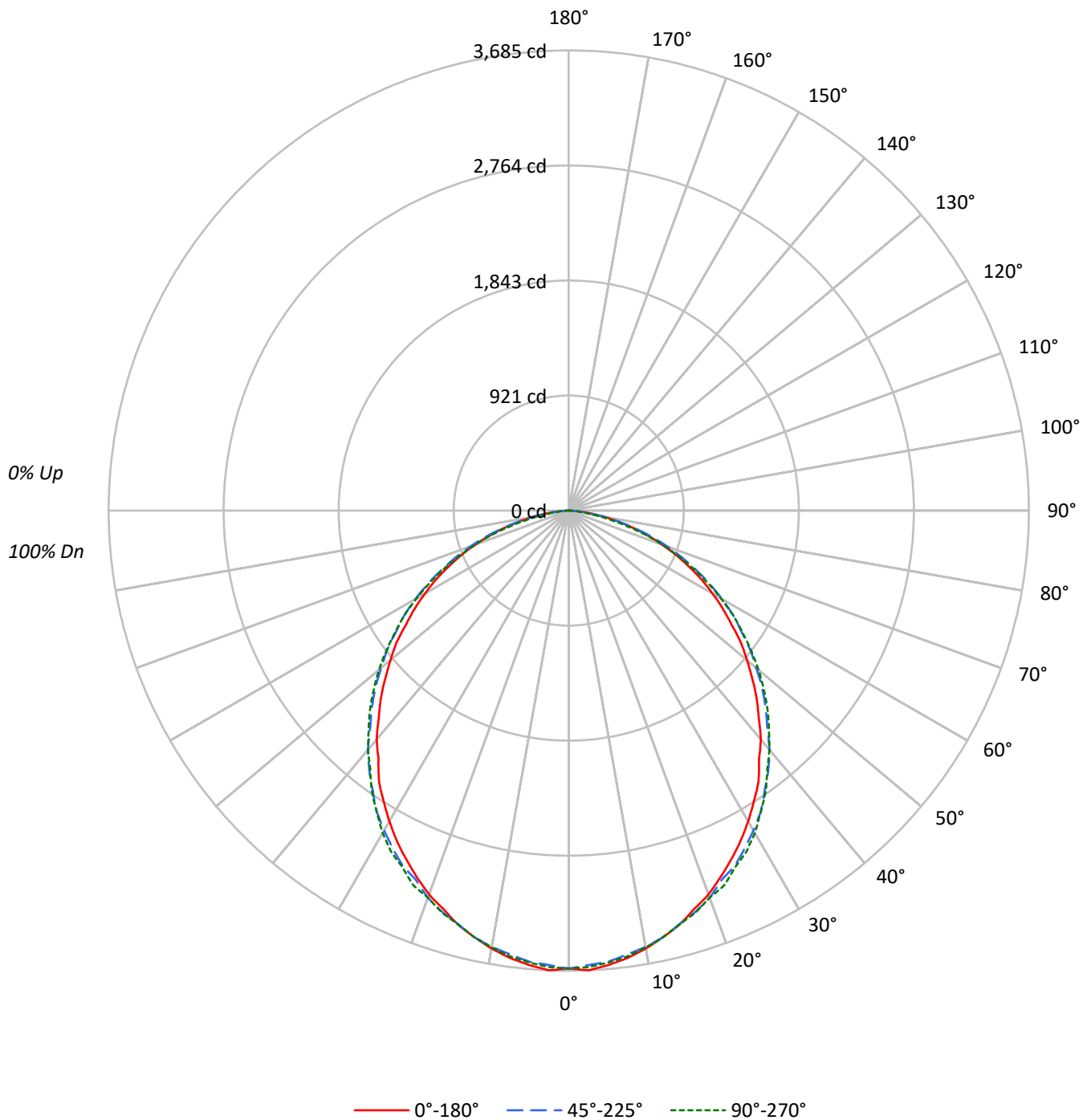
Lumens per Lamp: N/A
Luminaire Lumens: 9418.2 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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					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°	4934	4934	4934
5°	4933	4898	4906
10°	4865	4848	4853
15°	4781	4775	4778
20°	4685	4725	4722
25°	4574	4664	4679
30°	4463	4594	4632
35°	4353	4495	4515
40°	4204	4394	4391
45°	4051	4242	4284
50°	3898	4100	4154
55°	3734	3955	3978
60°	3577	3814	3787
65°	3389	3581	3510
70°	3123	3289	3139
75°	2762	2876	2511
80°	2221	2252	1755
85°	1454	1392	1022



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.7	3.7
10°-20°	969.1	10.3
20°-30°	1442.8	15.3
30°-40°	1698.3	18.0
40°-50°	1702.8	18.1
50°-60°	1493.2	15.9
60°-70°	1091.8	11.6
70°-80°	562.7	6.0
80°-90°	112.9	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°	2756.6	29.3
0°-40°	4454.9	47.3
0°-60°	7650.8	81.2
0°-90°	9418.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9418.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3667	3667	3667	3667	3667	
5°	3653	3629	3627	3651	3633	346
15°	3432	3438	3428	3450	3430	966
25°	3081	3095	3142	3186	3152	1419
35°	2650	2662	2736	2767	2748	1651
45°	2129	2139	2229	2257	2251	1641
55°	1592	1628	1686	1710	1696	1429
65°	1064	1089	1125	1121	1103	1053
75°	531	535	553	515	483	563
85°	94	92	90	72	66	123
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3666.7	3666.7	3666.7	3666.7	3666.7
2.5°	3684.8	3666.7	3642.7	3662.7	3658.7
5°	3652.7	3628.6	3626.6	3650.7	3632.6
7.5°	3612.6	3608.6	3584.5	3610.6	3600.6
10°	3560.5	3556.5	3548.4	3566.5	3552.4
12.5°	3498.3	3494.3	3498.3	3508.3	3498.3
15°	3432.2	3438.2	3428.1	3450.2	3430.2
17.5°	3343.9	3350.0	3370.0	3378.0	3376.0
20°	3271.8	3275.8	3299.8	3331.9	3297.8
22.5°	3177.6	3187.6	3199.6	3257.7	3249.7
25°	3081.3	3095.4	3141.5	3185.6	3151.5
27.5°	2981.1	2995.1	3051.3	3083.3	3079.3
30°	2872.8	2886.9	2957.0	3001.1	2981.1
32.5°	2760.6	2784.6	2860.8	2898.9	2860.8
35°	2650.3	2662.3	2736.5	2766.6	2748.5
37.5°	2504.0	2550.1	2624.2	2644.3	2612.2
40°	2393.7	2395.7	2501.9	2501.9	2499.9
42.5°	2251.4	2283.4	2353.6	2391.7	2371.6
45°	2129.1	2139.1	2229.3	2257.4	2251.4
47.5°	1994.7	2034.8	2101.0	2133.1	2117.0
50°	1862.4	1890.5	1958.7	2000.8	1984.7
52.5°	1740.1	1762.2	1832.4	1856.4	1840.4
55°	1591.8	1627.9	1686.0	1710.1	1696.0
57.5°	1463.5	1489.5	1561.7	1569.7	1561.7
60°	1329.2	1359.2	1417.4	1423.4	1407.3
62.5°	1200.9	1220.9	1273.0	1275.0	1257.0
65°	1064.5	1088.6	1124.7	1120.7	1102.6
67.5°	930.2	946.2	980.3	966.3	946.2
70°	793.9	807.9	836.0	815.9	797.9
72.5°	661.6	671.6	695.7	665.6	643.5
75°	531.3	535.3	553.3	515.2	483.1
77.5°	403.0	407.0	417.0	378.9	342.8
80°	286.7	286.7	290.7	250.6	226.5
82.5°	180.4	180.4	178.4	148.4	134.3
85°	94.2	92.2	90.2	72.2	66.2
87.5°	34.1	34.1	28.1	26.1	28.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)