

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: P487205

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-2STD-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: P487205
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-LD4-2STD-35-120-EDD
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

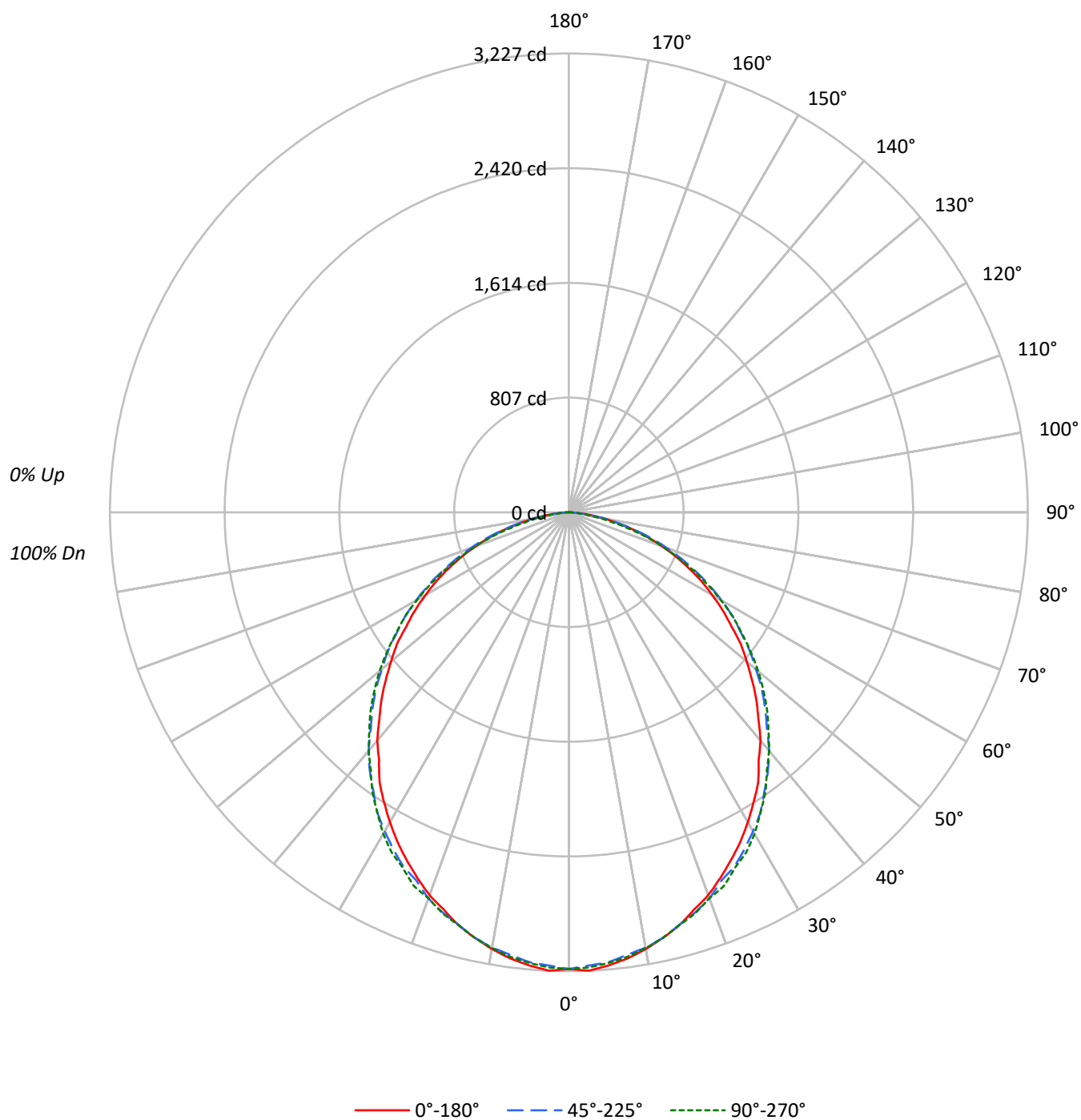
Lumens per Lamp: N/A
Luminaire Lumens: 8248.3 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 66.6
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°	4321	4321	4321
5°	4321	4290	4297
10°	4260	4246	4251
15°	4187	4182	4185
20°	4103	4138	4135
25°	4006	4084	4097
30°	3909	4023	4056
35°	3812	3937	3954
40°	3682	3849	3845
45°	3548	3715	3752
50°	3414	3591	3638
55°	3270	3464	3484
60°	3133	3340	3317
65°	2968	3136	3074
70°	2735	2880	2749
75°	2419	2519	2200
80°	1946	1973	1537
85°	1274	1220	894



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.8	3.7
10°-20°	848.7	10.3
20°-30°	1263.6	15.3
30°-40°	1487.3	18.0
40°-50°	1491.2	18.1
50°-60°	1307.7	15.9
60°-70°	956.2	11.6
70°-80°	492.8	6.0
80°-90°	98.9	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°	2414.2	29.3
0°-40°	3901.5	47.3
0°-60°	6700.4	81.2
0°-90°	8248.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8248.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3211	3211	3211	3211	3211	
5°	3199	3178	3176	3197	3181	303
15°	3006	3011	3002	3022	3004	846
25°	2699	2711	2751	2790	2760	1243
35°	2321	2332	2397	2423	2407	1446
45°	1865	1873	1952	1977	1972	1437
55°	1394	1426	1477	1498	1485	1251
65°	932	953	985	982	966	922
75°	465	469	485	451	423	493
85°	82	81	79	63	58	108
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3211.2	3211.2	3211.2	3211.2	3211.2
2.5°	3227.0	3211.2	3190.2	3207.7	3204.2
5°	3199.0	3177.9	3176.1	3197.2	3181.4
7.5°	3163.8	3160.3	3139.3	3162.1	3153.3
10°	3118.2	3114.7	3107.7	3123.5	3111.2
12.5°	3063.8	3060.3	3063.8	3072.5	3063.8
15°	3005.8	3011.1	3002.3	3021.6	3004.1
17.5°	2928.6	2933.8	2951.4	2958.4	2956.7
20°	2865.4	2868.9	2889.9	2918.0	2888.2
22.5°	2782.8	2791.6	2802.2	2853.1	2846.1
25°	2698.6	2710.9	2751.2	2789.9	2760.0
27.5°	2610.8	2623.1	2672.2	2700.3	2696.8
30°	2516.0	2528.3	2589.7	2628.3	2610.8
32.5°	2417.7	2438.7	2505.4	2538.8	2505.4
35°	2321.1	2331.6	2396.6	2422.9	2407.1
37.5°	2192.9	2233.3	2298.3	2315.8	2287.7
40°	2096.4	2098.1	2191.2	2191.2	2189.4
42.5°	1971.7	1999.8	2061.2	2094.6	2077.0
45°	1864.6	1873.4	1952.4	1977.0	1971.7
47.5°	1747.0	1782.1	1840.0	1868.1	1854.1
50°	1631.1	1655.7	1715.4	1752.2	1738.2
52.5°	1524.0	1543.3	1604.7	1625.8	1611.8
55°	1394.1	1425.7	1476.6	1497.6	1485.4
57.5°	1281.7	1304.5	1367.7	1374.7	1367.7
60°	1164.1	1190.4	1241.3	1246.6	1232.5
62.5°	1051.7	1069.2	1114.9	1116.7	1100.8
65°	932.3	953.4	985.0	981.5	965.7
67.5°	814.7	828.7	858.6	846.3	828.7
70°	695.3	707.6	732.1	714.6	698.8
72.5°	579.4	588.2	609.2	582.9	563.6
75°	465.3	468.8	484.6	451.2	423.1
77.5°	352.9	356.4	365.2	331.8	300.2
80°	251.1	251.1	254.6	219.5	198.4
82.5°	158.0	158.0	156.3	129.9	117.6
85°	82.5	80.8	79.0	63.2	57.9
87.5°	29.8	29.8	24.6	22.8	24.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)