

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: P487210

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-3HI-20-120-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: P487210
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-LD4-3HI-20-120-EDD-90
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

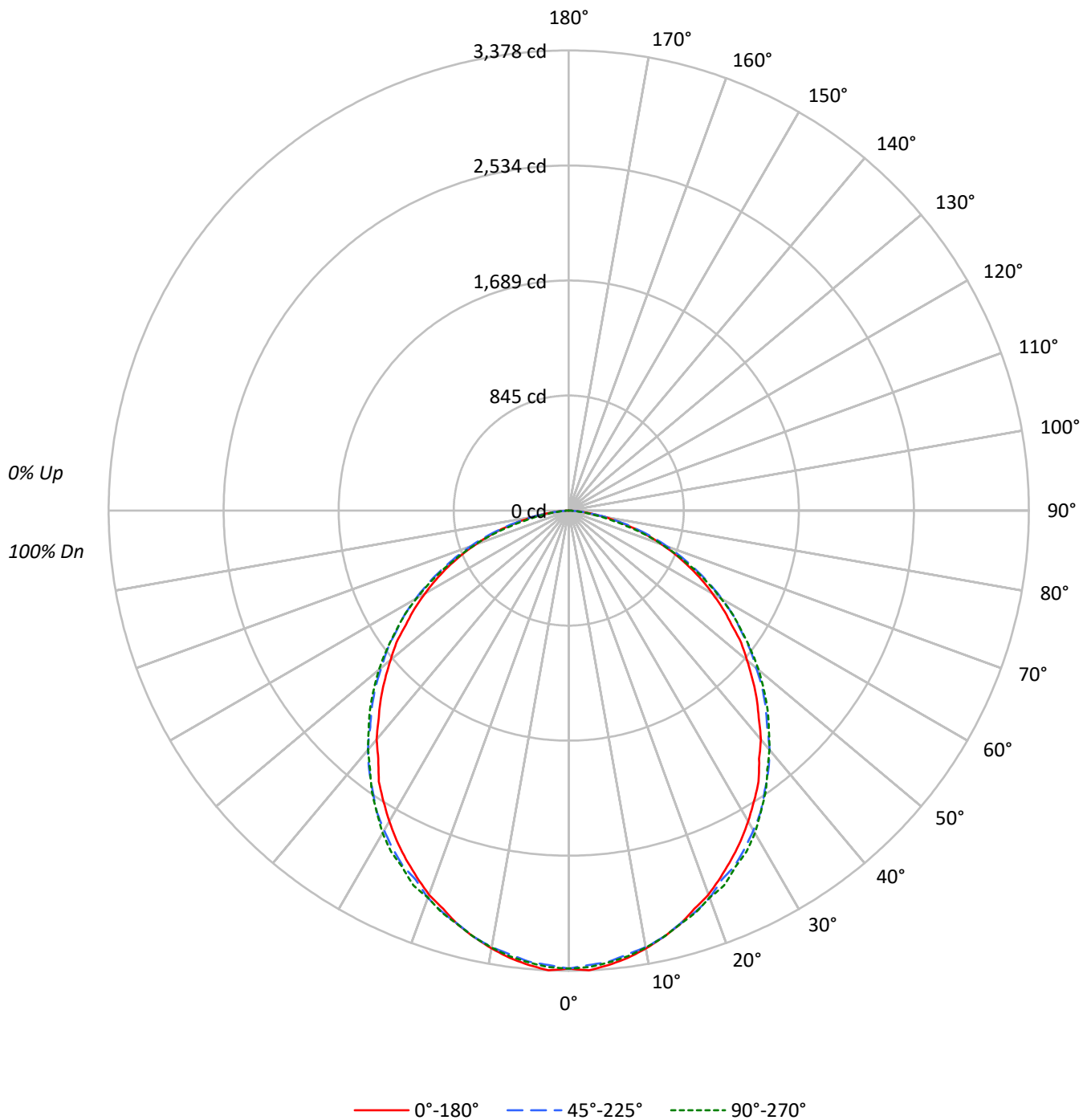
Lumens per Lamp: N/A
Luminaire Lumens: 8634.9 lumens
Efficiency: N/A
Efficacy: 65.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 132
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°	4523	4523	4523
5°	4523	4491	4498
10°	4460	4445	4450
15°	4383	4378	4381
20°	4295	4332	4329
25°	4194	4276	4290
30°	4092	4212	4246
35°	3991	4121	4139
40°	3855	4029	4026
45°	3714	3889	3928
50°	3574	3759	3809
55°	3423	3626	3648
60°	3279	3497	3472
65°	3107	3283	3218
70°	2864	3015	2878
75°	2532	2637	2303
80°	2036	2065	1609
85°	1334	1277	937



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.0	3.7
10°-20°	888.5	10.3
20°-30°	1322.8	15.3
30°-40°	1557.0	18.0
40°-50°	1561.1	18.1
50°-60°	1369.0	15.9
60°-70°	1001.0	11.6
70°-80°	515.9	6.0
80°-90°	103.5	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°	2527.3	29.3
0°-40°	4084.4	47.3
0°-60°	7014.5	81.2
0°-90°	8634.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8634.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3362	3362	3362	3362	3362	
5°	3349	3327	3325	3347	3330	317
15°	3147	3152	3143	3163	3145	886
25°	2825	2838	2880	2921	2889	1301
35°	2430	2441	2509	2536	2520	1513
45°	1952	1961	2044	2070	2064	1504
55°	1459	1492	1546	1568	1555	1310
65°	976	998	1031	1028	1011	965
75°	487	491	507	472	443	516
85°	86	84	83	66	61	113
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3361.8	3361.8	3361.8	3361.8	3361.8
2.5°	3378.3	3361.8	3339.7	3358.1	3354.4
5°	3348.9	3326.8	3325.0	3347.1	3330.5
7.5°	3312.1	3308.5	3286.4	3310.3	3301.1
10°	3264.3	3260.7	3253.3	3269.9	3257.0
12.5°	3207.4	3203.7	3207.4	3216.6	3207.4
15°	3146.7	3152.2	3143.0	3163.3	3144.9
17.5°	3065.8	3071.4	3089.7	3097.1	3095.2
20°	2999.7	3003.3	3025.4	3054.8	3023.6
22.5°	2913.3	2922.5	2933.5	2986.8	2979.4
25°	2825.1	2837.9	2880.2	2920.6	2889.4
27.5°	2733.2	2746.0	2797.5	2826.9	2823.2
30°	2633.9	2646.8	2711.1	2751.5	2733.2
32.5°	2531.0	2553.0	2622.9	2657.8	2622.9
35°	2429.9	2440.9	2508.9	2536.5	2519.9
37.5°	2295.7	2338.0	2406.0	2424.4	2395.0
40°	2194.6	2196.4	2293.9	2293.9	2292.0
42.5°	2064.1	2093.5	2157.8	2192.8	2174.4
45°	1952.0	1961.2	2043.9	2069.6	2064.1
47.5°	1828.8	1865.6	1926.3	1955.7	1941.0
50°	1707.5	1733.3	1795.8	1834.4	1819.7
52.5°	1595.4	1615.6	1680.0	1702.0	1687.3
55°	1459.4	1492.5	1545.8	1567.8	1555.0
57.5°	1341.8	1365.7	1431.8	1439.2	1431.8
60°	1218.6	1246.2	1299.5	1305.0	1290.3
62.5°	1101.0	1119.4	1167.2	1169.0	1152.4
65°	976.0	998.1	1031.1	1027.5	1010.9
67.5°	852.8	867.6	898.8	885.9	867.6
70°	727.9	740.7	766.5	748.1	731.5
72.5°	606.6	615.7	637.8	610.2	590.0
75°	487.1	490.8	507.3	472.4	443.0
77.5°	369.4	373.1	382.3	347.4	314.3
80°	262.8	262.8	266.5	229.8	207.7
82.5°	165.4	165.4	163.6	136.0	123.1
85°	86.4	84.5	82.7	66.2	60.7
87.5°	31.2	31.2	25.7	23.9	25.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)