

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: P487197

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-2LO-50-120-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: P487197
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-LD4-2LO-50-120-EDD
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

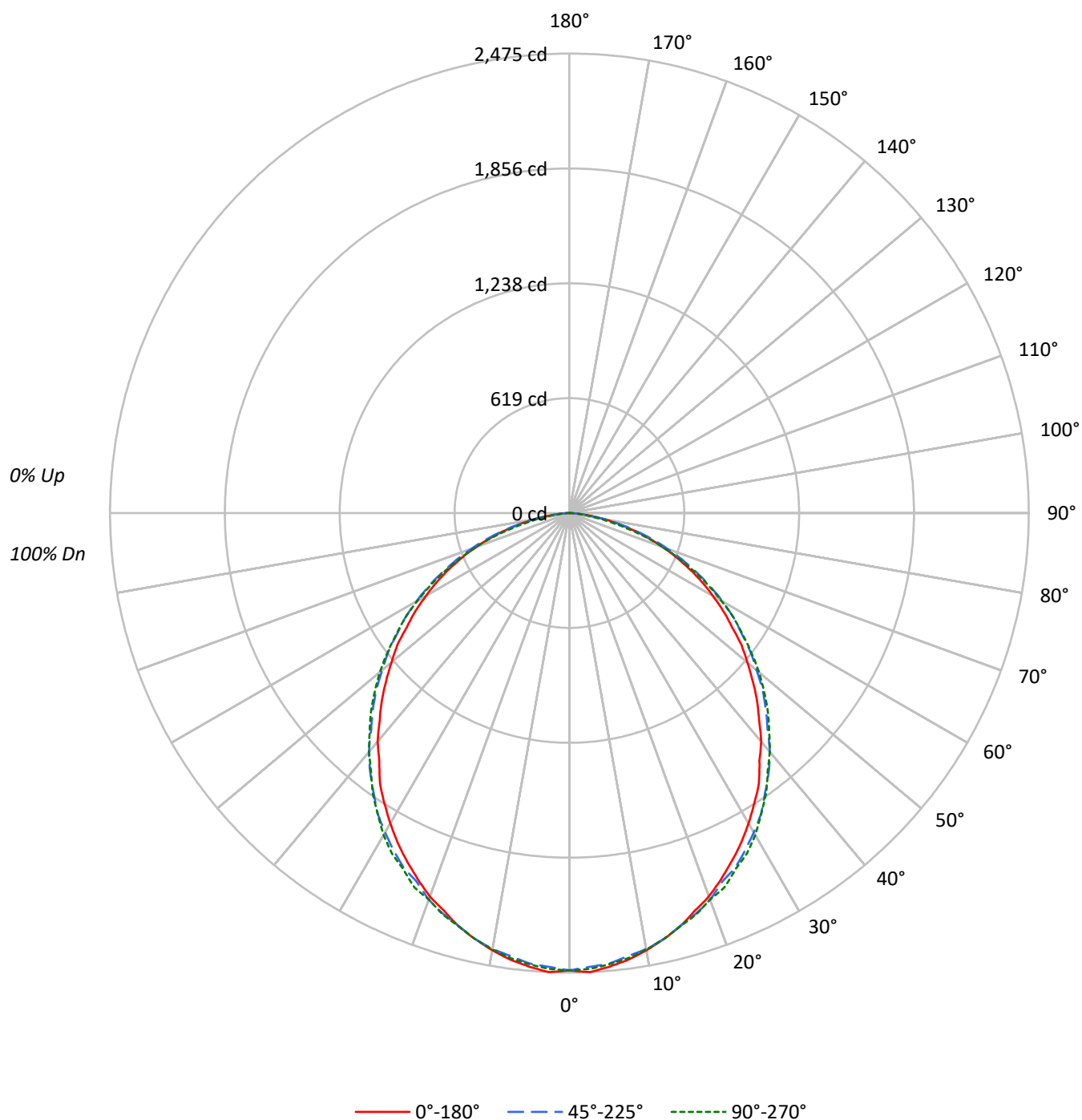
Lumens per Lamp: N/A
Luminaire Lumens: 6326.5 lumens
Efficiency: N/A
Efficacy: 135.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 46.8
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°	3314	3314	3314
5°	3314	3290	3296
10°	3268	3257	3260
15°	3211	3208	3210
20°	3147	3174	3172
25°	3073	3133	3143
30°	2998	3086	3111
35°	2924	3019	3033
40°	2824	2952	2950
45°	2721	2849	2878
50°	2619	2754	2791
55°	2508	2657	2673
60°	2403	2562	2544
65°	2277	2405	2358
70°	2098	2209	2109
75°	1855	1932	1687
80°	1492	1513	1179
85°	977	936	685



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.5	3.7
10°-20°	651.0	10.3
20°-30°	969.2	15.3
30°-40°	1140.8	18.0
40°-50°	1143.8	18.1
50°-60°	1003.0	15.9
60°-70°	733.4	11.6
70°-80°	378.0	6.0
80°-90°	75.8	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°	1851.7	29.3
0°-40°	2992.5	47.3
0°-60°	5139.3	81.2
0°-90°	6326.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6326.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2463	2463	2463	2463	2463	
5°	2454	2438	2436	2452	2440	232
15°	2306	2310	2303	2318	2304	649
25°	2070	2079	2110	2140	2117	953
35°	1780	1788	1838	1858	1846	1109
45°	1430	1437	1498	1516	1512	1102
55°	1069	1094	1132	1149	1139	960
65°	715	731	756	753	741	707
75°	357	360	372	346	324	378
85°	63	62	61	48	44	83
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2463.0	2463.0	2463.0	2463.0	2463.0
2.5°	2475.2	2463.0	2446.9	2460.4	2457.7
5°	2453.6	2437.5	2436.1	2452.3	2440.2
7.5°	2426.7	2424.0	2407.8	2425.3	2418.6
10°	2391.7	2389.0	2383.6	2395.7	2386.3
12.5°	2349.9	2347.2	2349.9	2356.7	2349.9
15°	2305.5	2309.5	2302.8	2317.6	2304.1
17.5°	2246.2	2250.3	2263.7	2269.1	2267.8
20°	2197.8	2200.4	2216.6	2238.2	2215.3
22.5°	2134.5	2141.2	2149.3	2188.3	2182.9
25°	2069.8	2079.2	2110.2	2139.8	2117.0
27.5°	2002.5	2011.9	2049.6	2071.2	2068.5
30°	1929.8	1939.2	1986.3	2016.0	2002.5
32.5°	1854.4	1870.5	1921.7	1947.3	1921.7
35°	1780.3	1788.4	1838.2	1858.4	1846.3
37.5°	1682.0	1713.0	1762.8	1776.2	1754.7
40°	1607.9	1609.3	1680.6	1680.6	1679.3
42.5°	1512.3	1533.9	1581.0	1606.6	1593.1
45°	1430.2	1436.9	1497.5	1516.3	1512.3
47.5°	1339.9	1366.9	1411.3	1432.9	1422.1
50°	1251.1	1269.9	1315.7	1344.0	1333.2
52.5°	1168.9	1183.7	1230.9	1247.0	1236.2
55°	1069.3	1093.5	1132.5	1148.7	1139.3
57.5°	983.1	1000.6	1049.1	1054.4	1049.1
60°	892.8	913.0	952.1	956.1	945.4
62.5°	806.7	820.1	855.1	856.5	844.4
65°	715.1	731.2	755.5	752.8	740.7
67.5°	624.9	635.6	658.5	649.1	635.6
70°	533.3	542.7	561.6	548.1	536.0
72.5°	444.4	451.1	467.3	447.1	432.3
75°	356.9	359.6	371.7	346.1	324.5
77.5°	270.7	273.4	280.1	254.5	230.3
80°	192.6	192.6	195.3	168.3	152.2
82.5°	121.2	121.2	119.9	99.7	90.2
85°	63.3	61.9	60.6	48.5	44.4
87.5°	22.9	22.9	18.9	17.5	18.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)