

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: P487195

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-2LO-40-120-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: P487195
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-40-120-EDD
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

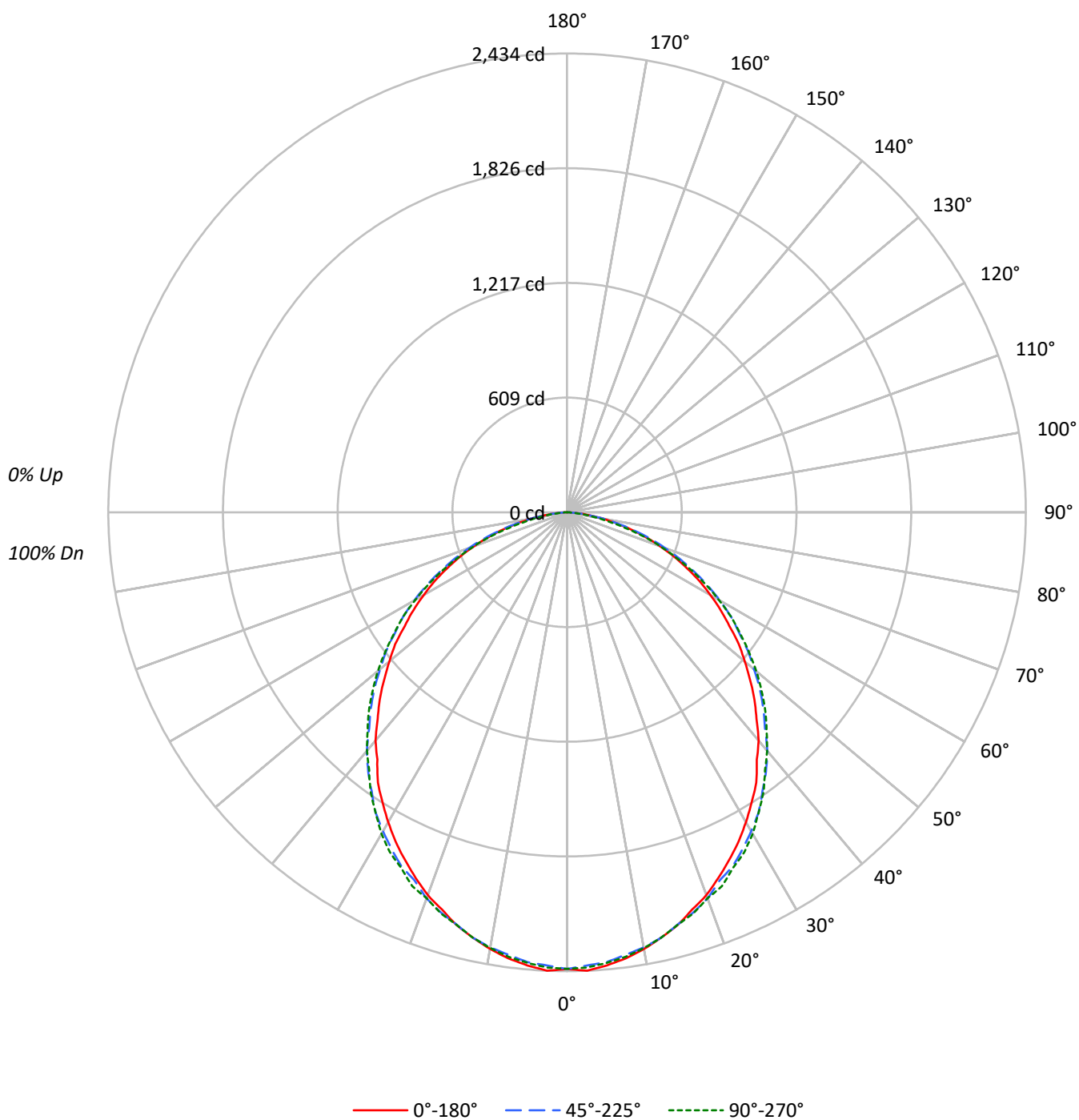
Lumens per Lamp: N/A
Luminaire Lumens: 6220.9 lumens
Efficiency: N/A
Efficacy: 132.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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				10			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85		
2	100	92	85	79	97	90	84	79	86	81	77	83	79	75	80	76	73	71		
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60		
4	83	72	63	57	81	70	62	56	68	61	55	66	59	55	63	58	54	52		
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39		
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35		
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31		
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28		
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3259	3259	3259
5°	3259	3235	3241
10°	3213	3202	3206
15°	3158	3154	3156
20°	3094	3121	3119
25°	3022	3081	3090
30°	2948	3035	3059
35°	2875	2969	2982
40°	2777	2903	2900
45°	2676	2802	2830
50°	2575	2708	2744
55°	2466	2612	2628
60°	2362	2519	2502
65°	2238	2365	2319
70°	2063	2172	2073
75°	1824	1900	1659
80°	1468	1488	1159
85°	960	920	675



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.6	3.7
10°-20°	640.1	10.3
20°-30°	953.0	15.3
30°-40°	1121.8	18.0
40°-50°	1124.7	18.1
50°-60°	986.3	15.9
60°-70°	721.2	11.6
70°-80°	371.7	6.0
80°-90°	74.6	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°	1820.8	29.3
0°-40°	2942.5	47.3
0°-60°	5053.5	81.2
0°-90°	6220.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6220.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2422	2422	2422	2422	2422	
5°	2413	2397	2396	2411	2399	228
15°	2267	2271	2264	2279	2266	638
25°	2035	2044	2075	2104	2082	938
35°	1751	1758	1808	1827	1816	1090
45°	1406	1413	1472	1491	1487	1084
55°	1051	1075	1114	1130	1120	944
65°	703	719	743	740	728	696
75°	351	354	366	340	319	372
85°	62	61	60	48	44	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2421.9	2421.9	2421.9	2421.9	2421.9
2.5°	2433.9	2421.9	2406.0	2419.3	2416.6
5°	2412.7	2396.8	2395.5	2411.3	2399.4
7.5°	2386.2	2383.5	2367.6	2384.9	2378.2
10°	2351.8	2349.1	2343.8	2355.7	2346.5
12.5°	2310.7	2308.1	2310.7	2317.3	2310.7
15°	2267.0	2271.0	2264.4	2278.9	2265.7
17.5°	2208.7	2212.7	2226.0	2231.3	2229.9
20°	2161.1	2163.7	2179.6	2200.8	2178.3
22.5°	2098.8	2105.5	2113.4	2151.8	2146.5
25°	2035.3	2044.5	2075.0	2104.1	2081.6
27.5°	1969.1	1978.3	2015.4	2036.6	2033.9
30°	1897.6	1906.8	1953.2	1982.3	1969.1
32.5°	1823.4	1839.3	1889.6	1914.8	1889.6
35°	1750.6	1758.5	1807.5	1827.4	1815.5
37.5°	1653.9	1684.4	1733.4	1746.6	1725.4
40°	1581.1	1582.4	1652.6	1652.6	1651.3
42.5°	1487.1	1508.2	1554.6	1579.8	1566.5
45°	1406.3	1412.9	1472.5	1491.0	1487.1
47.5°	1317.6	1344.0	1387.7	1408.9	1398.3
50°	1230.2	1248.7	1293.7	1321.5	1310.9
52.5°	1149.4	1164.0	1210.3	1226.2	1215.6
55°	1051.4	1075.2	1113.6	1129.5	1120.3
57.5°	966.7	983.9	1031.5	1036.8	1031.5
60°	877.9	897.8	936.2	940.2	929.6
62.5°	793.2	806.4	840.9	842.2	830.3
65°	703.1	719.0	742.9	740.2	728.3
67.5°	614.4	625.0	647.5	638.3	625.0
70°	524.4	533.6	552.2	538.9	527.0
72.5°	437.0	443.6	459.5	439.6	425.1
75°	350.9	353.6	365.5	340.3	319.1
77.5°	266.2	268.8	275.4	250.3	226.4
80°	189.4	189.4	192.0	165.5	149.6
82.5°	119.2	119.2	117.9	98.0	88.7
85°	62.2	60.9	59.6	47.7	43.7
87.5°	22.5	22.5	18.5	17.2	18.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)