

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: P485984

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-4STD-50-120-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: P485984
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-24-2-INS-A125-LD4-4STD-50-120-EDD-90
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

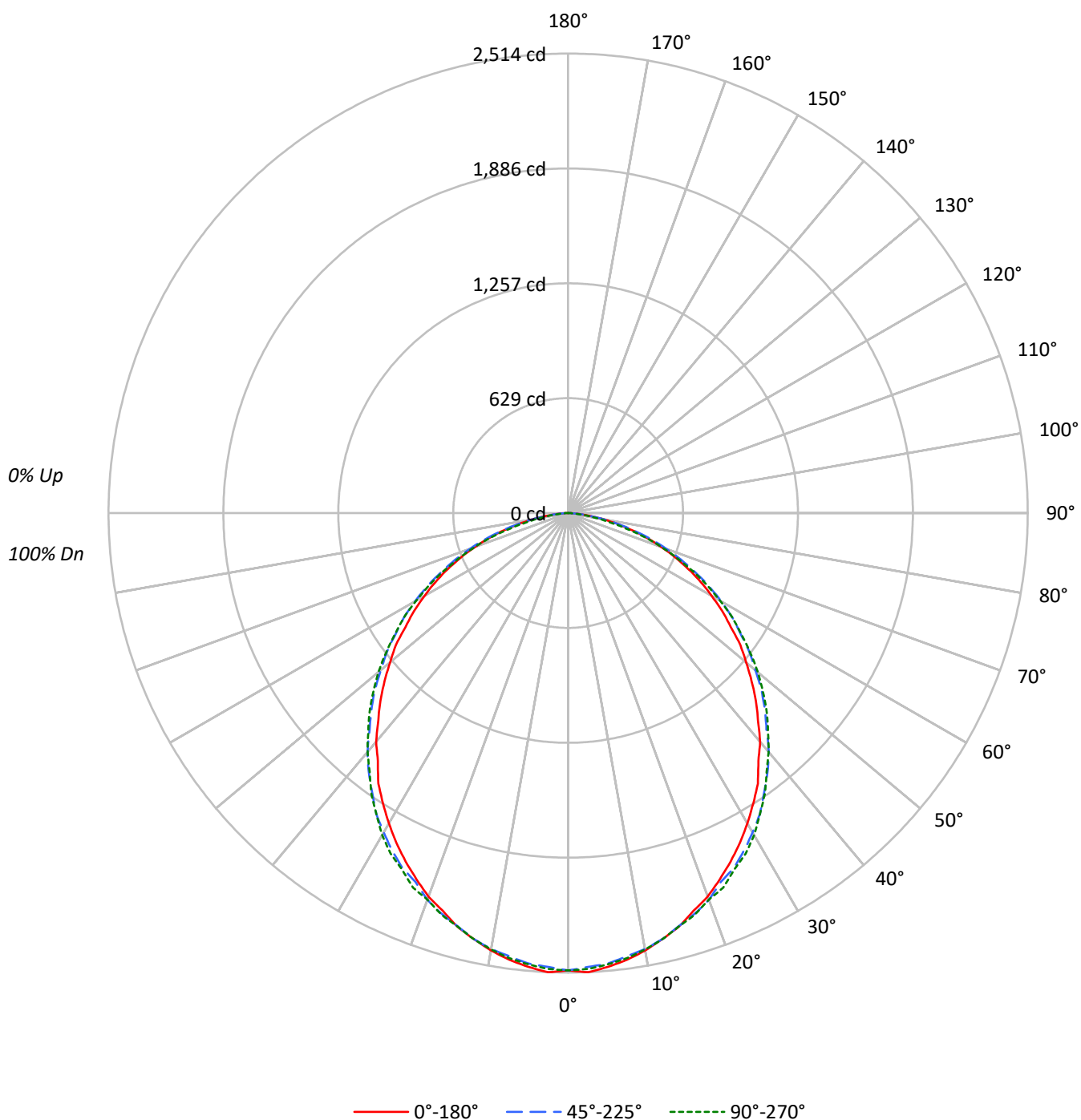
Lumens per Lamp: N/A
Luminaire Lumens: 6427.0 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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				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°	6733	6733	6733
5°	6733	6685	6696
10°	6639	6617	6624
15°	6525	6517	6521
20°	6394	6448	6445
25°	6243	6365	6385
30°	6092	6270	6321
35°	5941	6135	6161
40°	5738	5997	5993
45°	5529	5789	5847
50°	5321	5596	5670
55°	5096	5398	5430
60°	4881	5205	5169
65°	4625	4887	4791
70°	4263	4489	4284
75°	3769	3926	3428
80°	3031	3075	2396
85°	1985	1902	1392



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.2	3.7
10°-20°	661.3	10.3
20°-30°	984.6	15.3
30°-40°	1158.9	18.0
40°-50°	1162.0	18.1
50°-60°	1018.9	15.9
60°-70°	745.1	11.6
70°-80°	384.0	6.0
80°-90°	77.1	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°	1881.1	29.3
0°-40°	3040.0	47.3
0°-60°	5220.9	81.2
0°-90°	6427.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6427.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2502	2502	2502	2502	2502	
5°	2493	2476	2475	2491	2479	236
15°	2342	2346	2339	2354	2341	659
25°	2103	2112	2144	2174	2151	969
35°	1809	1817	1867	1888	1876	1126
45°	1453	1460	1521	1540	1536	1120
55°	1086	1111	1150	1167	1157	975
65°	726	743	768	765	752	719
75°	362	365	378	352	330	384
85°	64	63	62	49	45	84
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2502.2	2502.2	2502.2	2502.2	2502.2
2.5°	2514.5	2502.2	2485.8	2499.4	2496.7
5°	2492.6	2476.2	2474.8	2491.2	2478.9
7.5°	2465.2	2462.5	2446.1	2463.9	2457.0
10°	2429.7	2426.9	2421.5	2433.8	2424.2
12.5°	2387.3	2384.5	2387.3	2394.1	2387.3
15°	2342.1	2346.2	2339.4	2354.4	2340.7
17.5°	2281.9	2286.0	2299.7	2305.2	2303.8
20°	2232.7	2235.4	2251.8	2273.7	2250.5
22.5°	2168.4	2175.2	2183.4	2223.1	2217.6
25°	2102.7	2112.3	2143.7	2173.8	2150.6
27.5°	2034.3	2043.9	2082.2	2104.1	2101.3
30°	1960.4	1970.0	2017.9	2048.0	2034.3
32.5°	1883.8	1900.2	1952.2	1978.2	1952.2
35°	1808.6	1816.8	1867.4	1887.9	1875.6
37.5°	1708.7	1740.2	1790.8	1804.5	1782.6
40°	1633.5	1634.8	1707.3	1707.3	1706.0
42.5°	1536.3	1558.2	1606.1	1632.1	1618.4
45°	1452.9	1459.7	1521.3	1540.4	1536.3
47.5°	1361.2	1388.6	1433.7	1455.6	1444.7
50°	1270.9	1290.1	1336.6	1365.3	1354.4
52.5°	1187.5	1202.5	1250.4	1266.8	1255.9
55°	1086.2	1110.9	1150.5	1167.0	1157.4
57.5°	998.7	1016.5	1065.7	1071.2	1065.7
60°	907.0	927.5	967.2	971.3	960.4
62.5°	819.5	833.1	868.7	870.1	857.8
65°	726.4	742.9	767.5	764.7	752.4
67.5°	634.8	645.7	669.0	659.4	645.7
70°	541.8	551.3	570.5	556.8	544.5
72.5°	451.5	458.3	474.7	454.2	439.1
75°	362.5	365.3	377.6	351.6	329.7
77.5°	275.0	277.7	284.6	258.6	233.9
80°	195.6	195.6	198.4	171.0	154.6
82.5°	123.1	123.1	121.8	101.2	91.7
85°	64.3	62.9	61.6	49.3	45.1
87.5°	23.3	23.3	19.2	17.8	19.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)