

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: P485977

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-4STD-27-120-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: P485977
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-27-120-EDD
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

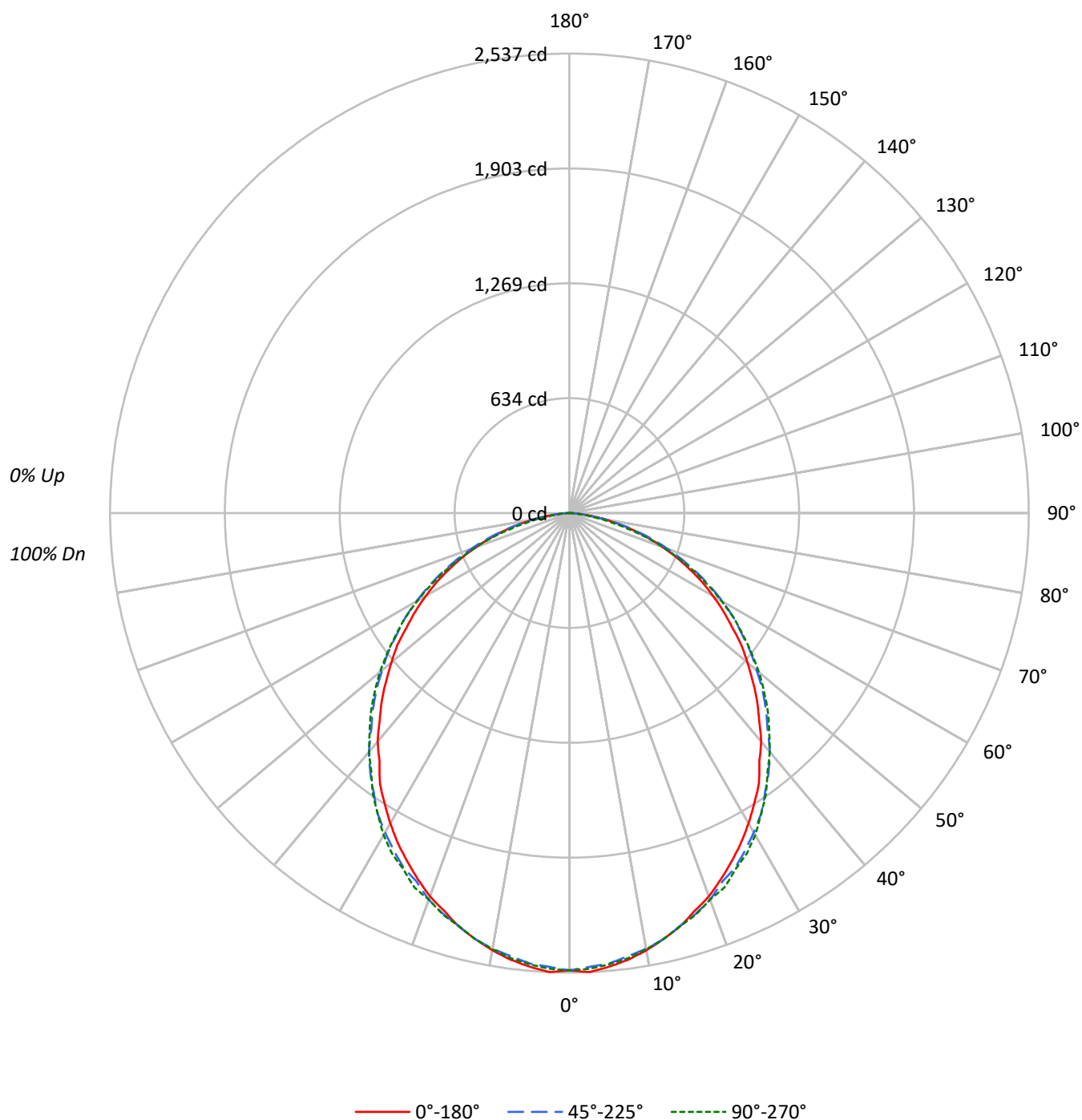
Lumens per Lamp: N/A
Luminaire Lumens: 6483.8 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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					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°	6793	6793	6793
5°	6793	6744	6755
10°	6698	6675	6683
15°	6583	6575	6579
20°	6450	6505	6501
25°	6298	6421	6442
30°	6146	6325	6377
35°	5994	6189	6216
40°	5789	6050	6046
45°	5578	5840	5898
50°	5368	5645	5720
55°	5141	5446	5478
60°	4924	5252	5215
65°	4667	4930	4833
70°	4300	4528	4322
75°	3802	3960	3458
80°	3059	3101	2417
85°	2004	1917	1405



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.3	3.7
10°-20°	667.2	10.3
20°-30°	993.3	15.3
30°-40°	1169.2	18.0
40°-50°	1172.2	18.1
50°-60°	1027.9	15.9
60°-70°	751.7	11.6
70°-80°	387.4	6.0
80°-90°	77.7	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°	1897.7	29.3
0°-40°	3066.9	47.3
0°-60°	5267.0	81.2
0°-90°	6483.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6483.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2524	2524	2524	2524	2524	
5°	2515	2498	2497	2513	2501	238
15°	2363	2367	2360	2375	2361	665
25°	2121	2131	2163	2193	2170	977
35°	1825	1833	1884	1905	1892	1136
45°	1466	1473	1535	1554	1550	1130
55°	1096	1121	1161	1177	1168	984
65°	733	749	774	772	759	725
75°	366	368	381	355	333	388
85°	65	64	62	50	46	85
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2524.3	2524.3	2524.3	2524.3	2524.3
2.5°	2536.7	2524.3	2507.7	2521.5	2518.8
5°	2514.6	2498.1	2496.7	2513.2	2500.8
7.5°	2487.0	2484.3	2467.7	2485.6	2478.7
10°	2451.1	2448.4	2442.9	2455.3	2445.6
12.5°	2408.4	2405.6	2408.4	2415.3	2408.4
15°	2362.8	2367.0	2360.1	2375.2	2361.4
17.5°	2302.1	2306.2	2320.0	2325.5	2324.2
20°	2252.4	2255.2	2271.7	2293.8	2270.3
22.5°	2187.5	2194.4	2202.7	2242.7	2237.2
25°	2121.3	2130.9	2162.7	2193.1	2169.6
27.5°	2052.3	2061.9	2100.6	2122.7	2119.9
30°	1977.8	1987.4	2035.7	2066.1	2052.3
32.5°	1900.5	1917.0	1969.5	1995.7	1969.5
35°	1824.6	1832.8	1883.9	1904.6	1892.2
37.5°	1723.8	1755.5	1806.6	1820.4	1798.3
40°	1647.9	1649.3	1722.4	1722.4	1721.0
42.5°	1549.9	1572.0	1620.3	1646.5	1632.7
45°	1465.7	1472.6	1534.7	1554.0	1549.9
47.5°	1373.2	1400.8	1446.4	1468.5	1457.4
50°	1282.2	1301.5	1348.4	1377.4	1366.3
52.5°	1198.0	1213.1	1261.5	1278.0	1267.0
55°	1095.8	1120.7	1160.7	1177.3	1167.6
57.5°	1007.5	1025.4	1075.1	1080.7	1075.1
60°	915.0	935.7	975.8	979.9	968.9
62.5°	826.7	840.5	876.4	877.8	865.4
65°	732.9	749.4	774.3	771.5	759.1
67.5°	640.4	651.4	674.9	665.2	651.4
70°	546.5	556.2	575.5	561.7	549.3
72.5°	455.4	462.3	478.9	458.2	443.0
75°	365.7	368.5	380.9	354.7	332.6
77.5°	277.4	280.2	287.1	260.8	236.0
80°	197.4	197.4	200.1	172.5	156.0
82.5°	124.2	124.2	122.8	102.1	92.5
85°	64.9	63.5	62.1	49.7	45.5
87.5°	23.5	23.5	19.3	17.9	19.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)