

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: P486036

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-6LO-27-120-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: P486036
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-LD4-6LO-27-120-EDD-90
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

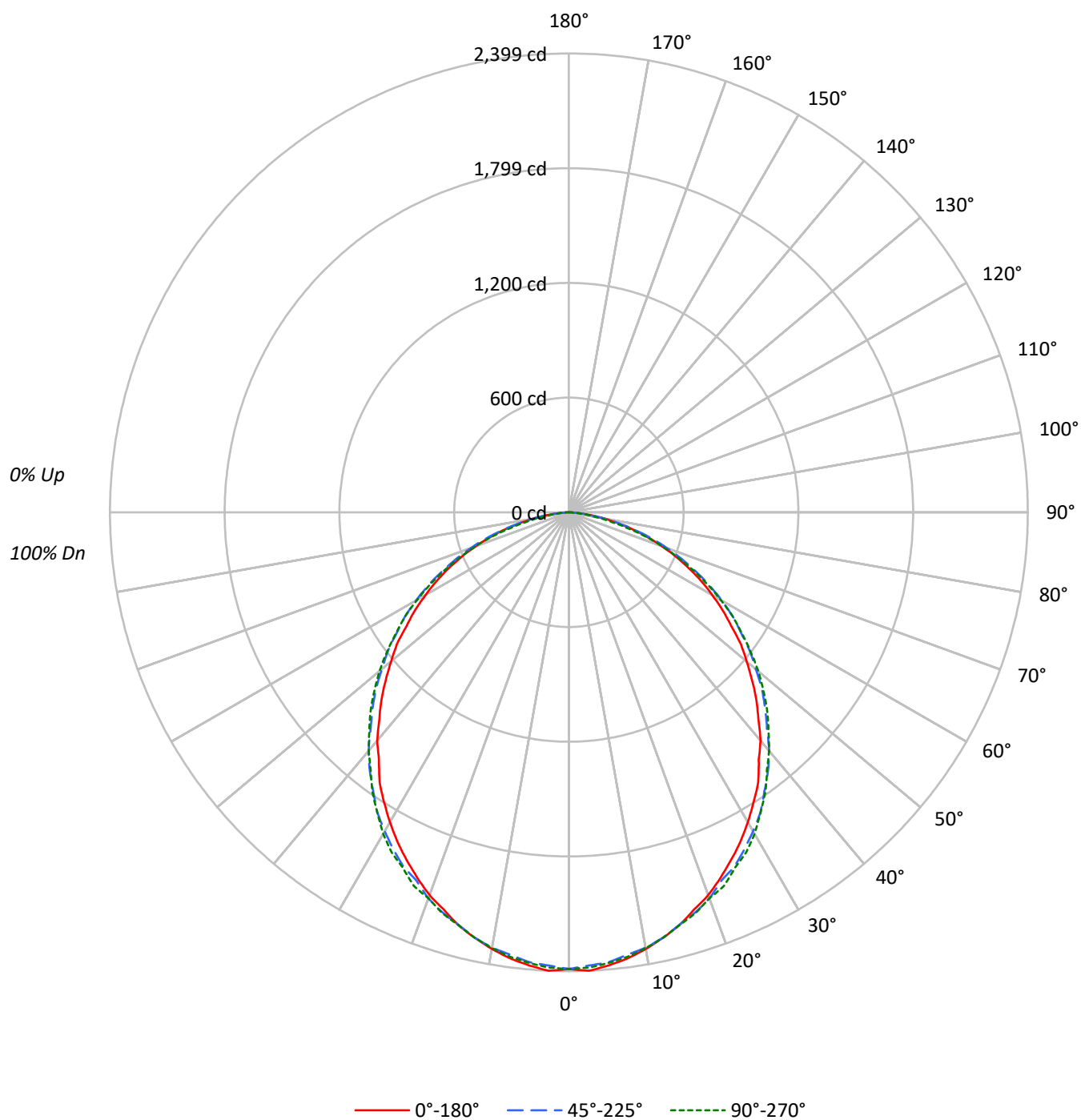
Lumens per Lamp: N/A
Luminaire Lumens: 6132.3 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 70.2
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°	6424	6424	6424
5°	6424	6378	6389
10°	6335	6313	6320
15°	6226	6218	6222
20°	6100	6153	6149
25°	5957	6073	6093
30°	5812	5983	6031
35°	5669	5853	5879
40°	5475	5722	5718
45°	5276	5524	5579
50°	5076	5339	5410
55°	4862	5150	5181
60°	4658	4967	4931
65°	4413	4663	4571
70°	4067	4282	4087
75°	3596	3746	3271
80°	2893	2934	2286
85°	1896	1812	1331



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.4	3.7
10°-20°	631.0	10.3
20°-30°	939.4	15.3
30°-40°	1105.8	18.0
40°-50°	1108.7	18.1
50°-60°	972.2	15.9
60°-70°	710.9	11.6
70°-80°	366.4	6.0
80°-90°	73.5	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°	1794.8	29.3
0°-40°	2900.6	47.3
0°-60°	4981.5	81.2
0°-90°	6132.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6132.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2387	2387	2387	2387	2387	
5°	2378	2363	2361	2377	2365	225
15°	2235	2239	2232	2246	2233	629
25°	2006	2015	2045	2074	2052	924
35°	1726	1734	1782	1801	1790	1075
45°	1386	1393	1452	1470	1466	1068
55°	1036	1060	1098	1113	1104	930
65°	693	709	732	730	718	686
75°	346	348	360	336	315	367
85°	61	60	59	47	43	80
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2387.4	2387.4	2387.4	2387.4	2387.4
2.5°	2399.2	2387.4	2371.8	2384.8	2382.2
5°	2378.3	2362.6	2361.3	2377.0	2365.3
7.5°	2352.2	2349.6	2333.9	2350.9	2344.4
10°	2318.3	2315.6	2310.4	2322.2	2313.0
12.5°	2277.8	2275.2	2277.8	2284.3	2277.8
15°	2234.7	2238.6	2232.1	2246.5	2233.4
17.5°	2177.3	2181.2	2194.3	2199.5	2198.2
20°	2130.3	2132.9	2148.6	2169.5	2147.3
22.5°	2068.9	2075.5	2083.3	2121.2	2115.9
25°	2006.3	2015.4	2045.4	2074.2	2052.0
27.5°	1941.0	1950.2	1986.7	2007.6	2005.0
30°	1870.5	1879.7	1925.4	1954.1	1941.0
32.5°	1797.4	1813.1	1862.7	1887.5	1862.7
35°	1725.6	1733.5	1781.8	1801.4	1789.6
37.5°	1630.4	1660.4	1708.7	1721.7	1700.8
40°	1558.6	1559.9	1629.0	1629.0	1627.7
42.5°	1465.9	1486.8	1532.5	1557.3	1544.2
45°	1386.3	1392.8	1451.5	1469.8	1465.9
47.5°	1298.8	1324.9	1368.0	1388.9	1378.4
50°	1212.6	1230.9	1275.3	1302.7	1292.3
52.5°	1133.0	1147.4	1193.1	1208.7	1198.3
55°	1036.4	1059.9	1097.8	1113.4	1104.3
57.5°	952.9	969.9	1016.8	1022.1	1016.8
60°	865.4	885.0	922.9	926.8	916.3
62.5°	781.9	794.9	828.9	830.2	818.4
65°	693.1	708.8	732.3	729.7	717.9
67.5°	605.7	616.1	638.3	629.2	616.1
70°	516.9	526.0	544.3	531.3	519.5
72.5°	430.8	437.3	452.9	433.4	419.0
75°	345.9	348.5	360.3	335.5	314.6
77.5°	262.4	265.0	271.5	246.7	223.2
80°	186.7	186.7	189.3	163.2	147.5
82.5°	117.5	117.5	116.2	96.6	87.5
85°	61.4	60.0	58.7	47.0	43.1
87.5°	22.2	22.2	18.3	17.0	18.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)