

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: P485978

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-4STD-30-120-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: P485978
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-30-120-EDD-90
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

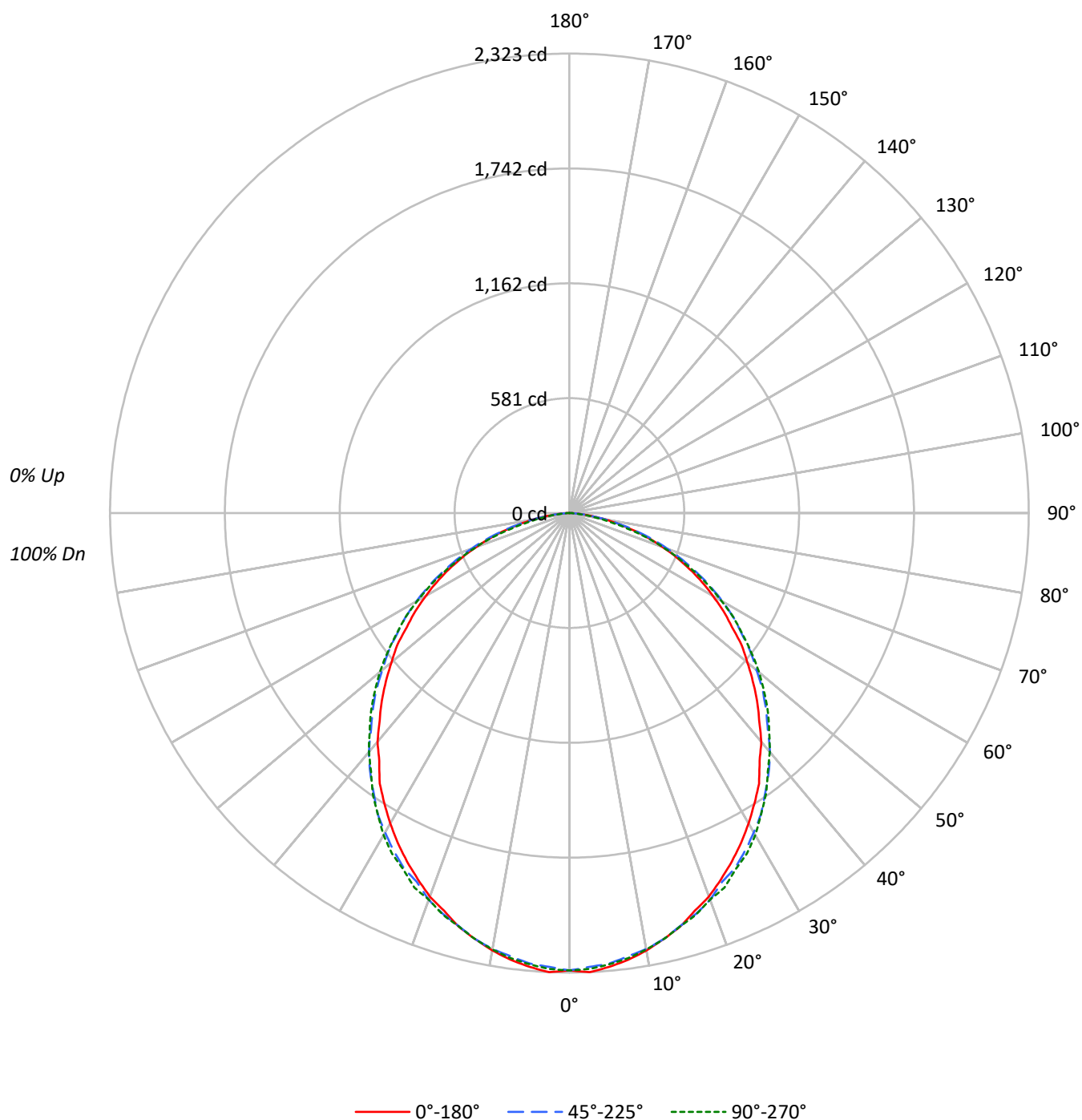
Lumens per Lamp: N/A
Luminaire Lumens: 5938.7 lumens
Efficiency: N/A
Efficacy: 89.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6222	6222	6222
5°	6222	6177	6188
10°	6135	6114	6121
15°	6029	6022	6026
20°	5908	5958	5955
25°	5769	5882	5900
30°	5629	5794	5841
35°	5490	5668	5693
40°	5302	5542	5538
45°	5109	5350	5402
50°	4917	5170	5239
55°	4709	4988	5017
60°	4511	4810	4776
65°	4274	4516	4427
70°	3939	4147	3958
75°	3483	3628	3168
80°	2802	2841	2213
85°	1834	1757	1288



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.3	3.7
10°-20°	611.1	10.3
20°-30°	909.8	15.3
30°-40°	1070.9	18.0
40°-50°	1073.7	18.1
50°-60°	941.5	15.9
60°-70°	688.5	11.6
70°-80°	354.8	6.0
80°-90°	71.2	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°	1738.2	29.3
0°-40°	2809.0	47.3
0°-60°	4824.2	81.2
0°-90°	5938.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5938.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2312	2312	2312	2312	2312	
5°	2303	2288	2287	2302	2291	218
15°	2164	2168	2162	2176	2163	609
25°	1943	1952	1981	2009	1987	895
35°	1671	1679	1726	1744	1733	1041
45°	1342	1349	1406	1423	1420	1035
55°	1004	1026	1063	1078	1069	901
65°	671	686	709	707	695	664
75°	335	338	349	325	305	355
85°	59	58	57	46	42	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2312.1	2312.1	2312.1	2312.1	2312.1
2.5°	2323.4	2312.1	2296.9	2309.5	2307.0
5°	2303.2	2288.1	2286.8	2302.0	2290.6
7.5°	2277.9	2275.4	2260.2	2276.7	2270.4
10°	2245.1	2242.5	2237.5	2248.9	2240.0
12.5°	2205.9	2203.4	2205.9	2212.2	2205.9
15°	2164.2	2168.0	2161.6	2175.5	2162.9
17.5°	2108.5	2112.3	2125.0	2130.0	2128.8
20°	2063.0	2065.6	2080.7	2101.0	2079.5
22.5°	2003.6	2009.9	2017.5	2054.2	2049.1
25°	1942.9	1951.8	1980.9	2008.7	1987.2
27.5°	1879.7	1888.6	1924.0	1944.2	1941.7
30°	1811.5	1820.3	1864.6	1892.4	1879.7
32.5°	1740.7	1755.9	1803.9	1827.9	1803.9
35°	1671.2	1678.7	1725.5	1744.5	1733.1
37.5°	1578.9	1608.0	1654.7	1667.4	1647.1
40°	1509.4	1510.6	1577.6	1577.6	1576.4
42.5°	1419.6	1439.8	1484.1	1508.1	1495.4
45°	1342.5	1348.8	1405.7	1423.4	1419.6
47.5°	1257.8	1283.1	1324.8	1345.0	1334.9
50°	1174.4	1192.1	1235.0	1261.6	1251.5
52.5°	1097.3	1111.2	1155.4	1170.6	1160.5
55°	1003.7	1026.5	1063.1	1078.3	1069.4
57.5°	922.8	939.2	984.7	989.8	984.7
60°	838.1	857.1	893.7	897.5	887.4
62.5°	757.2	769.8	802.7	804.0	792.6
65°	671.2	686.4	709.2	706.6	695.3
67.5°	586.6	596.7	618.2	609.3	596.7
70°	500.6	509.4	527.1	514.5	503.1
72.5°	417.2	423.5	438.6	419.7	405.8
75°	335.0	337.5	348.9	324.9	304.7
77.5°	254.1	256.6	262.9	238.9	216.2
80°	180.8	180.8	183.3	158.0	142.8
82.5°	113.8	113.8	112.5	93.5	84.7
85°	59.4	58.1	56.9	45.5	41.7
87.5°	21.5	21.5	17.7	16.4	17.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)