

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: P485998

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-5LO-20-120-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: P485998
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-LD4-5LO-20-120-EDD-90
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

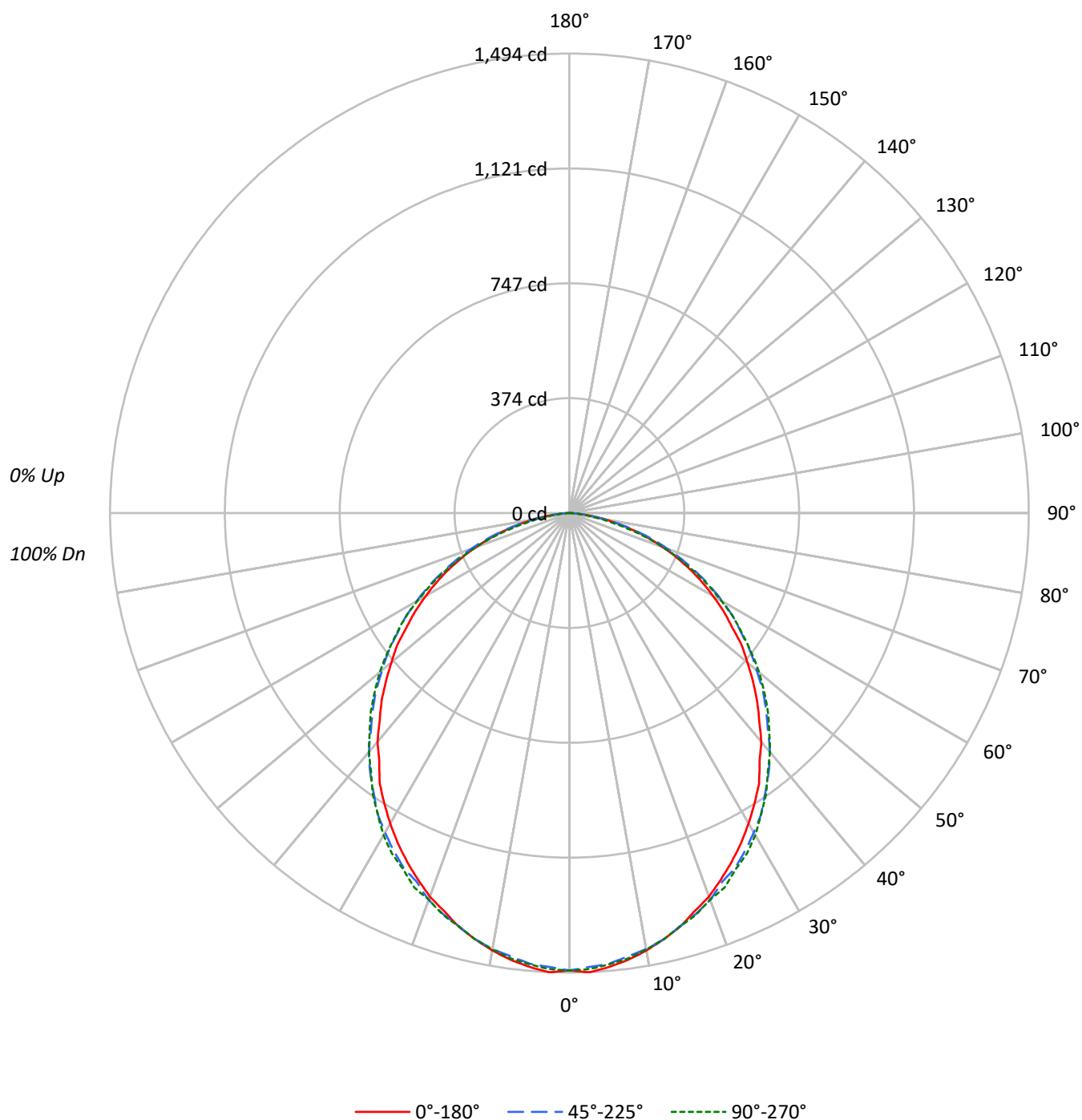
Lumens per Lamp: N/A
Luminaire Lumens: 3819.8 lumens
Efficiency: N/A
Efficacy: 65.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 58.5
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
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°	4002	4002	4002
5°	4002	3973	3980
10°	3946	3933	3937
15°	3878	3874	3876
20°	3800	3832	3830
25°	3711	3783	3795
30°	3621	3727	3757
35°	3531	3646	3662
40°	3410	3564	3562
45°	3286	3441	3475
50°	3162	3326	3370
55°	3029	3208	3227
60°	2901	3094	3072
65°	2749	2904	2848
70°	2533	2668	2546
75°	2241	2333	2038
80°	1802	1827	1424
85°	1179	1130	827



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.8	3.7
10°-20°	393.0	10.3
20°-30°	585.2	15.3
30°-40°	688.8	18.0
40°-50°	690.6	18.1
50°-60°	605.6	15.9
60°-70°	442.8	11.6
70°-80°	228.2	6.0
80°-90°	45.8	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°	1118.0	29.3
0°-40°	1806.8	47.3
0°-60°	3103.0	81.2
0°-90°	3819.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3819.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1487	1487	1487	1487	1487	
5°	1481	1472	1471	1481	1473	140
15°	1392	1394	1390	1399	1391	392
25°	1250	1255	1274	1292	1278	576
35°	1075	1080	1110	1122	1115	669
45°	864	868	904	916	913	665
55°	646	660	684	694	688	580
65°	432	442	456	454	447	427
75°	216	217	224	209	196	228
85°	38	37	37	29	27	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1487.1	1487.1	1487.1	1487.1	1487.1
2.5°	1494.5	1487.1	1477.4	1485.5	1483.9
5°	1481.4	1471.7	1470.9	1480.6	1473.3
7.5°	1465.2	1463.6	1453.8	1464.4	1460.3
10°	1444.0	1442.4	1439.2	1446.5	1440.8
12.5°	1418.8	1417.2	1418.8	1422.9	1418.8
15°	1392.0	1394.4	1390.4	1399.3	1391.2
17.5°	1356.2	1358.7	1366.8	1370.0	1369.2
20°	1327.0	1328.6	1338.3	1351.3	1337.5
22.5°	1288.7	1292.8	1297.7	1321.3	1318.0
25°	1249.7	1255.4	1274.1	1292.0	1278.2
27.5°	1209.1	1214.8	1237.5	1250.5	1248.9
30°	1165.2	1170.8	1199.3	1217.2	1209.1
32.5°	1119.6	1129.4	1160.3	1175.7	1160.3
35°	1074.9	1079.8	1109.9	1122.1	1114.7
37.5°	1015.5	1034.2	1064.3	1072.5	1059.5
40°	970.8	971.6	1014.7	1014.7	1013.9
42.5°	913.1	926.1	954.6	970.0	961.9
45°	863.5	867.6	904.2	915.5	913.1
47.5°	809.0	825.3	852.1	865.1	858.6
50°	755.4	766.7	794.4	811.5	805.0
52.5°	705.8	714.7	743.2	752.9	746.4
55°	645.6	660.2	683.8	693.6	687.9
57.5°	593.6	604.1	633.4	636.6	633.4
60°	539.1	551.3	574.9	577.3	570.8
62.5°	487.0	495.2	516.3	517.1	509.8
65°	431.7	441.5	456.1	454.5	447.2
67.5°	377.3	383.8	397.6	391.9	383.8
70°	322.0	327.7	339.1	330.9	323.6
72.5°	268.3	272.4	282.1	269.9	261.0
75°	215.5	217.1	224.4	209.0	196.0
77.5°	163.4	165.1	169.1	153.7	139.0
80°	116.3	116.3	117.9	101.6	91.9
82.5°	73.2	73.2	72.4	60.2	54.5
85°	38.2	37.4	36.6	29.3	26.8
87.5°	13.8	13.8	11.4	10.6	11.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)