

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: P485932

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-3LO-35-120-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: P485932
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-LD4-3LO-35-120-EDD-90
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

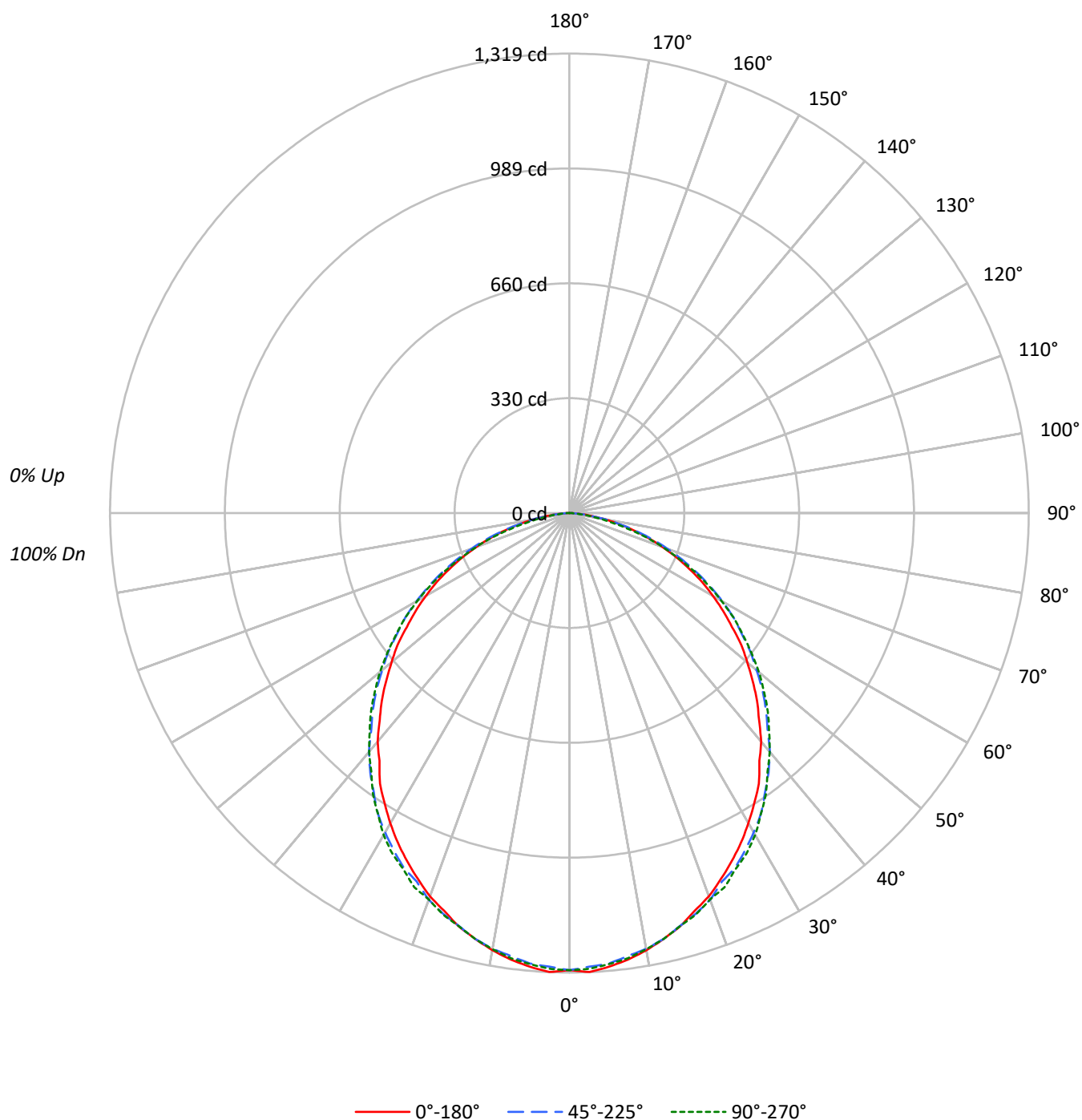
Lumens per Lamp: N/A
Luminaire Lumens: 3370.4 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
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°	3531	3531	3531
5°	3531	3506	3512
10°	3481	3470	3474
15°	3422	3418	3420
20°	3353	3382	3380
25°	3274	3338	3349
30°	3195	3288	3315
35°	3116	3217	3231
40°	3009	3145	3143
45°	2900	3036	3066
50°	2790	2934	2974
55°	2672	2831	2847
60°	2560	2730	2710
65°	2426	2563	2513
70°	2235	2354	2246
75°	1976	2059	1798
80°	1590	1612	1257
85°	1041	997	732



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.3	3.7
10°-20°	346.8	10.3
20°-30°	516.3	15.3
30°-40°	607.7	18.0
40°-50°	609.3	18.1
50°-60°	534.3	15.9
60°-70°	390.7	11.6
70°-80°	201.4	6.0
80°-90°	40.4	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°	986.5	29.3
0°-40°	1594.2	47.3
0°-60°	2737.9	81.2
0°-90°	3370.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3370.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1312	1312	1312	1312	1312	
5°	1307	1298	1298	1306	1300	124
15°	1228	1230	1227	1235	1228	346
25°	1103	1108	1124	1140	1128	508
35°	948	953	979	990	984	591
45°	762	766	798	808	806	587
55°	570	582	603	612	607	511
65°	381	390	402	401	395	377
75°	190	192	198	184	173	201
85°	34	33	32	26	24	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1312.2	1312.2	1312.2	1312.2	1312.2
2.5°	1318.6	1312.2	1303.6	1310.7	1309.3
5°	1307.2	1298.5	1297.8	1306.4	1300.0
7.5°	1292.8	1291.4	1282.8	1292.1	1288.5
10°	1274.1	1272.7	1269.8	1276.3	1271.3
12.5°	1251.9	1250.5	1251.9	1255.5	1251.9
15°	1228.2	1230.4	1226.8	1234.7	1227.5
17.5°	1196.7	1198.8	1206.0	1208.9	1208.1
20°	1170.8	1172.3	1180.9	1192.4	1180.2
22.5°	1137.1	1140.7	1145.0	1165.8	1162.9
25°	1102.7	1107.7	1124.2	1140.0	1127.8
27.5°	1066.8	1071.8	1091.9	1103.4	1102.0
30°	1028.1	1033.1	1058.2	1074.0	1066.8
32.5°	987.9	996.5	1023.8	1037.4	1023.8
35°	948.4	952.7	979.3	990.0	983.6
37.5°	896.1	912.6	939.1	946.3	934.8
40°	856.6	857.3	895.3	895.3	894.6
42.5°	805.7	817.1	842.3	855.9	848.7
45°	761.9	765.5	797.8	807.8	805.7
47.5°	713.8	728.2	751.9	763.3	757.6
50°	666.5	676.5	700.9	716.0	710.3
52.5°	622.7	630.6	655.7	664.3	658.6
55°	569.6	582.5	603.4	612.0	606.9
57.5°	523.7	533.0	558.9	561.7	558.9
60°	475.7	486.4	507.2	509.4	503.6
62.5°	429.7	436.9	455.6	456.3	449.8
65°	381.0	389.6	402.5	401.0	394.6
67.5°	332.9	338.6	350.8	345.8	338.6
70°	284.1	289.1	299.2	292.0	285.5
72.5°	236.8	240.3	248.9	238.2	230.3
75°	190.1	191.6	198.0	184.4	172.9
77.5°	144.2	145.6	149.2	135.6	122.7
80°	102.6	102.6	104.0	89.7	81.1
82.5°	64.6	64.6	63.9	53.1	48.1
85°	33.7	33.0	32.3	25.8	23.7
87.5°	12.2	12.2	10.0	9.3	10.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)