

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: P485929

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-3LO-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: P485929
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-27-120-EDD
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

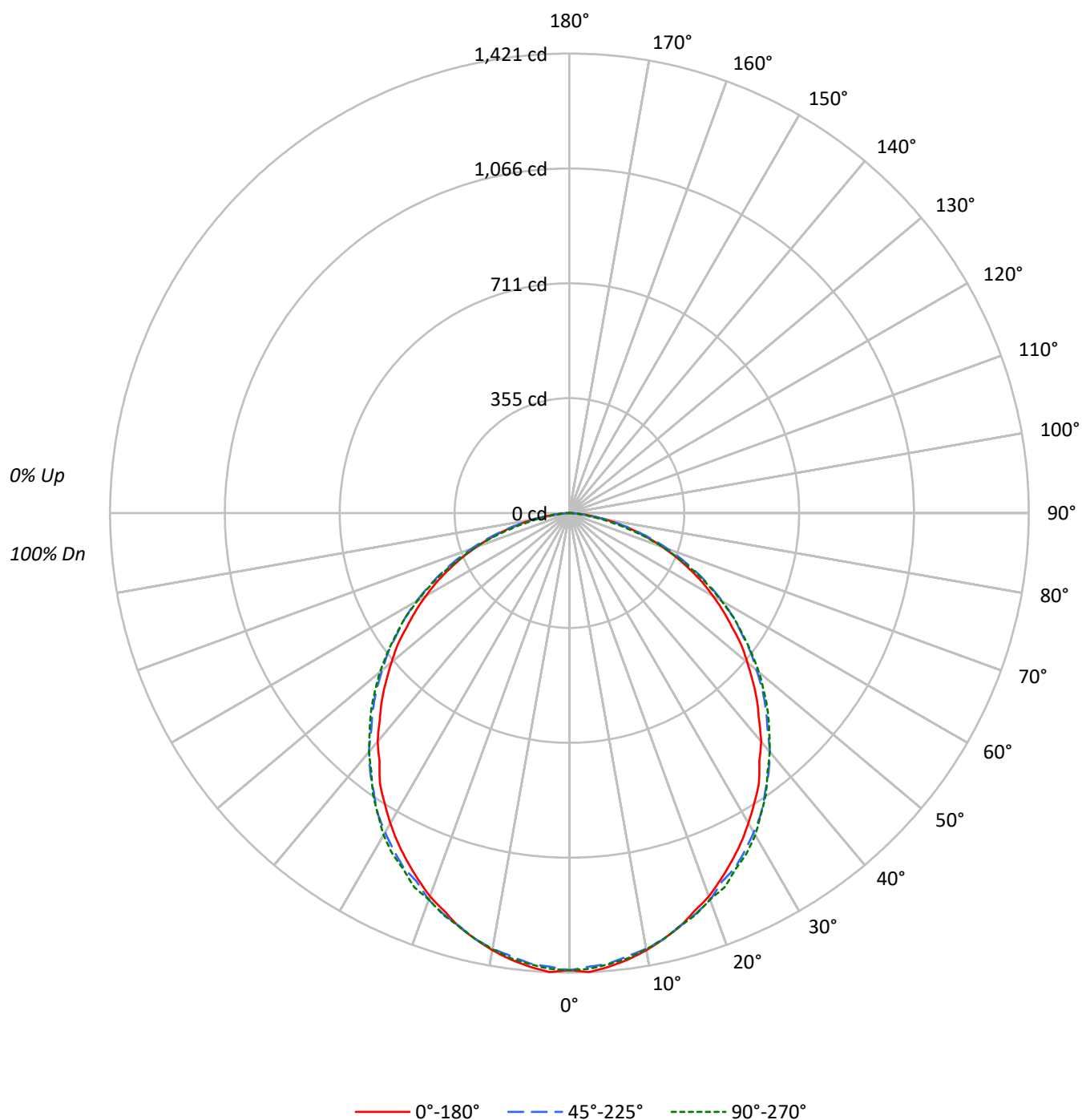
Lumens per Lamp: N/A
Luminaire Lumens: 3631.2 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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	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°	3804	3804	3804
5°	3804	3777	3783
10°	3751	3738	3742
15°	3687	3682	3684
20°	3612	3643	3641
25°	3527	3596	3608
30°	3442	3543	3572
35°	3357	3466	3481
40°	3242	3388	3386
45°	3124	3271	3303
50°	3006	3162	3203
55°	2879	3050	3068
60°	2758	2941	2920
65°	2613	2761	2707
70°	2408	2536	2420
75°	2129	2218	1937
80°	1712	1737	1353
85°	1121	1074	787



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.9	3.7
10°-20°	373.6	10.3
20°-30°	556.3	15.3
30°-40°	654.8	18.0
40°-50°	656.5	18.1
50°-60°	575.7	15.9
60°-70°	421.0	11.6
70°-80°	216.9	6.0
80°-90°	43.5	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°	1062.8	29.3
0°-40°	1717.6	47.3
0°-60°	2949.8	81.2
0°-90°	3631.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3631.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1414	1414	1414	1414	1414	
5°	1408	1399	1398	1408	1401	133
15°	1323	1326	1322	1330	1322	372
25°	1188	1193	1211	1228	1215	547
35°	1022	1026	1055	1067	1060	636
45°	821	825	860	870	868	633
55°	614	628	650	659	654	551
65°	410	420	434	432	425	406
75°	205	206	213	199	186	217
85°	36	36	35	28	26	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1413.7	1413.7	1413.7	1413.7	1413.7
2.5°	1420.7	1413.7	1404.4	1412.2	1410.6
5°	1408.3	1399.0	1398.2	1407.5	1400.6
7.5°	1392.8	1391.3	1382.0	1392.1	1388.2
10°	1372.7	1371.2	1368.1	1375.1	1369.6
12.5°	1348.8	1347.2	1348.8	1352.6	1348.8
15°	1323.3	1325.6	1321.7	1330.2	1322.5
17.5°	1289.3	1291.6	1299.3	1302.4	1301.6
20°	1261.4	1263.0	1272.3	1284.6	1271.5
22.5°	1225.1	1229.0	1233.6	1256.0	1252.9
25°	1188.0	1193.4	1211.2	1228.2	1215.1
27.5°	1149.4	1154.8	1176.4	1188.8	1187.2
30°	1107.6	1113.0	1140.1	1157.1	1149.4
32.5°	1064.3	1073.6	1103.0	1117.7	1103.0
35°	1021.8	1026.5	1055.1	1066.7	1059.7
37.5°	965.4	983.2	1011.8	1019.5	1007.1
40°	922.9	923.7	964.6	964.6	963.9
42.5°	868.0	880.4	907.4	922.1	914.4
45°	820.9	824.7	859.5	870.3	868.0
47.5°	769.1	784.5	810.0	822.4	816.2
50°	718.1	728.9	755.2	771.4	765.2
52.5°	670.9	679.4	706.5	715.7	709.6
55°	613.7	627.6	650.0	659.3	653.9
57.5°	564.2	574.3	602.1	605.2	602.1
60°	512.5	524.1	546.5	548.8	542.6
62.5°	463.0	470.7	490.8	491.6	484.6
65°	410.4	419.7	433.6	432.1	425.1
67.5°	358.6	364.8	378.0	372.6	364.8
70°	306.1	311.5	322.3	314.6	307.6
72.5°	255.1	258.9	268.2	256.6	248.1
75°	204.8	206.4	213.3	198.6	186.3
77.5°	155.4	156.9	160.8	146.1	132.2
80°	110.5	110.5	112.1	96.6	87.3
82.5°	69.6	69.6	68.8	57.2	51.8
85°	36.3	35.6	34.8	27.8	25.5
87.5°	13.1	13.1	10.8	10.0	10.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)