

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: P485937

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-3LO-50-120-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: P485937
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-50-120-EDD
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

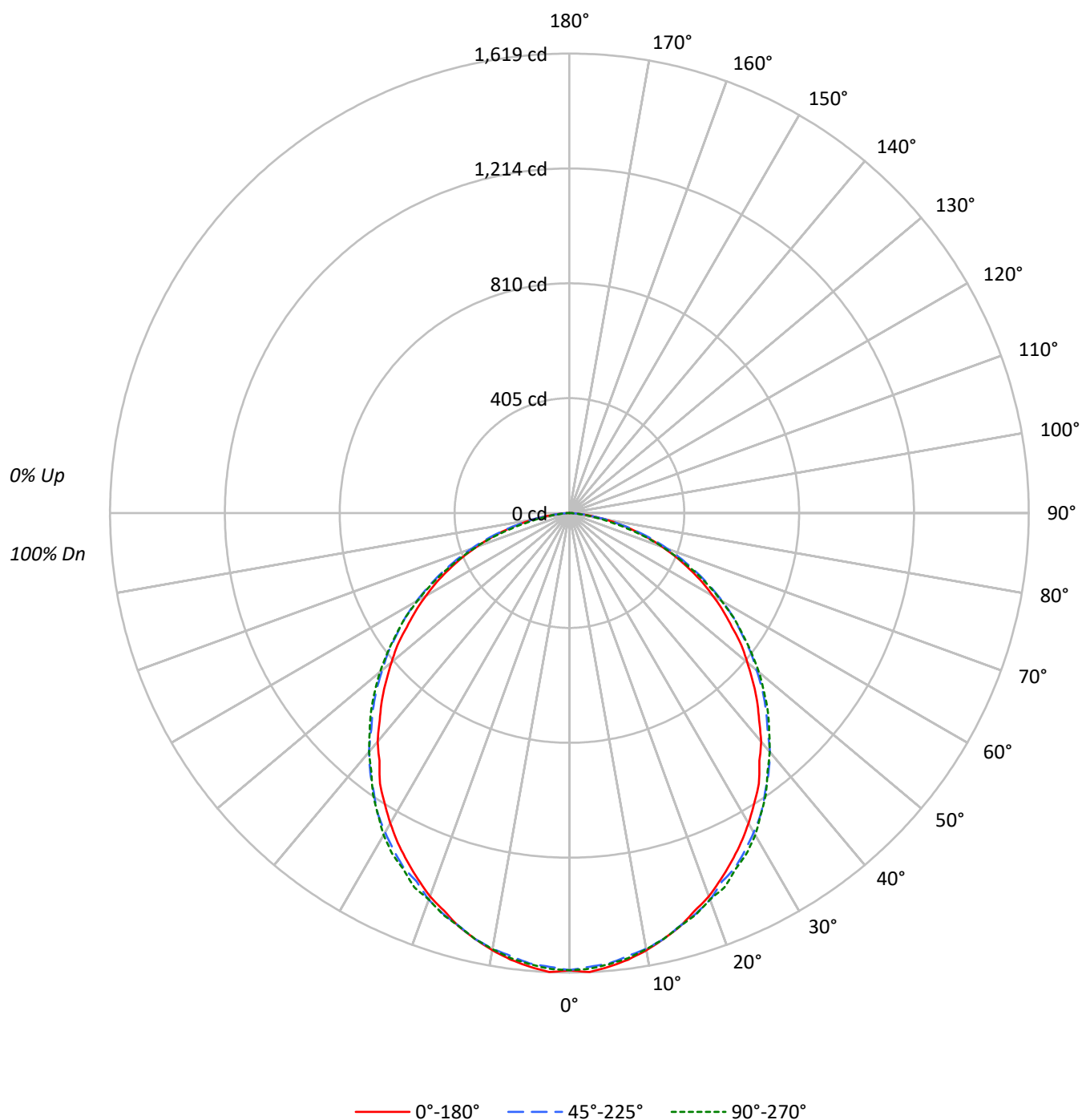
Lumens per Lamp: N/A
Luminaire Lumens: 4137.3 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	4334	4334	4334
5°	4334	4303	4311
10°	4274	4259	4264
15°	4200	4195	4198
20°	4116	4151	4149
25°	4019	4097	4111
30°	3921	4036	4069
35°	3824	3949	3966
40°	3694	3861	3858
45°	3559	3727	3764
50°	3425	3602	3650
55°	3281	3475	3495
60°	3143	3351	3327
65°	2977	3146	3084
70°	2744	2889	2758
75°	2427	2528	2206
80°	1951	1979	1542
85°	1278	1223	898



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.4	3.7
10°-20°	425.7	10.3
20°-30°	633.8	15.3
30°-40°	746.0	18.0
40°-50°	748.0	18.1
50°-60°	655.9	15.9
60°-70°	479.6	11.6
70°-80°	247.2	6.0
80°-90°	49.6	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°	1210.9	29.3
0°-40°	1957.0	47.3
0°-60°	3360.9	81.2
0°-90°	4137.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4137.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1611	1611	1611	1611	1611	
5°	1605	1594	1593	1604	1596	152
15°	1508	1510	1506	1516	1507	424
25°	1354	1360	1380	1399	1384	624
35°	1164	1170	1202	1215	1207	725
45°	935	940	979	992	989	721
55°	699	715	741	751	745	628
65°	468	478	494	492	484	463
75°	233	235	243	226	212	247
85°	41	40	40	32	29	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1610.7	1610.7	1610.7	1610.7	1610.7
2.5°	1618.7	1610.7	1600.2	1609.0	1607.2
5°	1604.6	1594.0	1593.1	1603.7	1595.8
7.5°	1587.0	1585.2	1574.6	1586.1	1581.7
10°	1564.1	1562.3	1558.8	1566.7	1560.5
12.5°	1536.8	1535.0	1536.8	1541.2	1536.8
15°	1507.7	1510.3	1505.9	1515.6	1506.8
17.5°	1469.0	1471.6	1480.4	1483.9	1483.0
20°	1437.3	1439.0	1449.6	1463.7	1448.7
22.5°	1395.9	1400.3	1405.5	1431.1	1427.6
25°	1353.6	1359.8	1380.0	1399.4	1384.4
27.5°	1309.6	1315.7	1340.4	1354.5	1352.7
30°	1262.0	1268.2	1299.0	1318.4	1309.6
32.5°	1212.7	1223.2	1256.7	1273.4	1256.7
35°	1164.2	1169.5	1202.1	1215.3	1207.4
37.5°	1100.0	1120.2	1152.8	1161.6	1147.5
40°	1051.5	1052.4	1099.1	1099.1	1098.2
42.5°	989.0	1003.1	1033.9	1050.6	1041.8
45°	935.3	939.7	979.3	991.6	989.0
47.5°	876.3	893.9	922.9	937.0	930.0
50°	818.1	830.5	860.4	878.9	871.9
52.5°	764.4	774.1	804.9	815.5	808.5
55°	699.3	715.1	740.6	751.2	745.0
57.5°	642.9	654.3	686.0	689.6	686.0
60°	583.9	597.1	622.6	625.3	618.2
62.5°	527.5	536.3	559.2	560.1	552.2
65°	467.6	478.2	494.1	492.3	484.4
67.5°	408.6	415.7	430.6	424.5	415.7
70°	348.7	354.9	367.2	358.4	350.5
72.5°	290.6	295.0	305.6	292.4	282.7
75°	233.4	235.1	243.1	226.3	212.2
77.5°	177.0	178.8	183.2	166.4	150.6
80°	125.9	125.9	127.7	110.1	99.5
82.5°	79.3	79.3	78.4	65.2	59.0
85°	41.4	40.5	39.6	31.7	29.1
87.5°	15.0	15.0	12.3	11.4	12.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)