

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: P485915

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-3HI-20-120-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: P485915
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-LD4-3HI-20-120-EDD
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

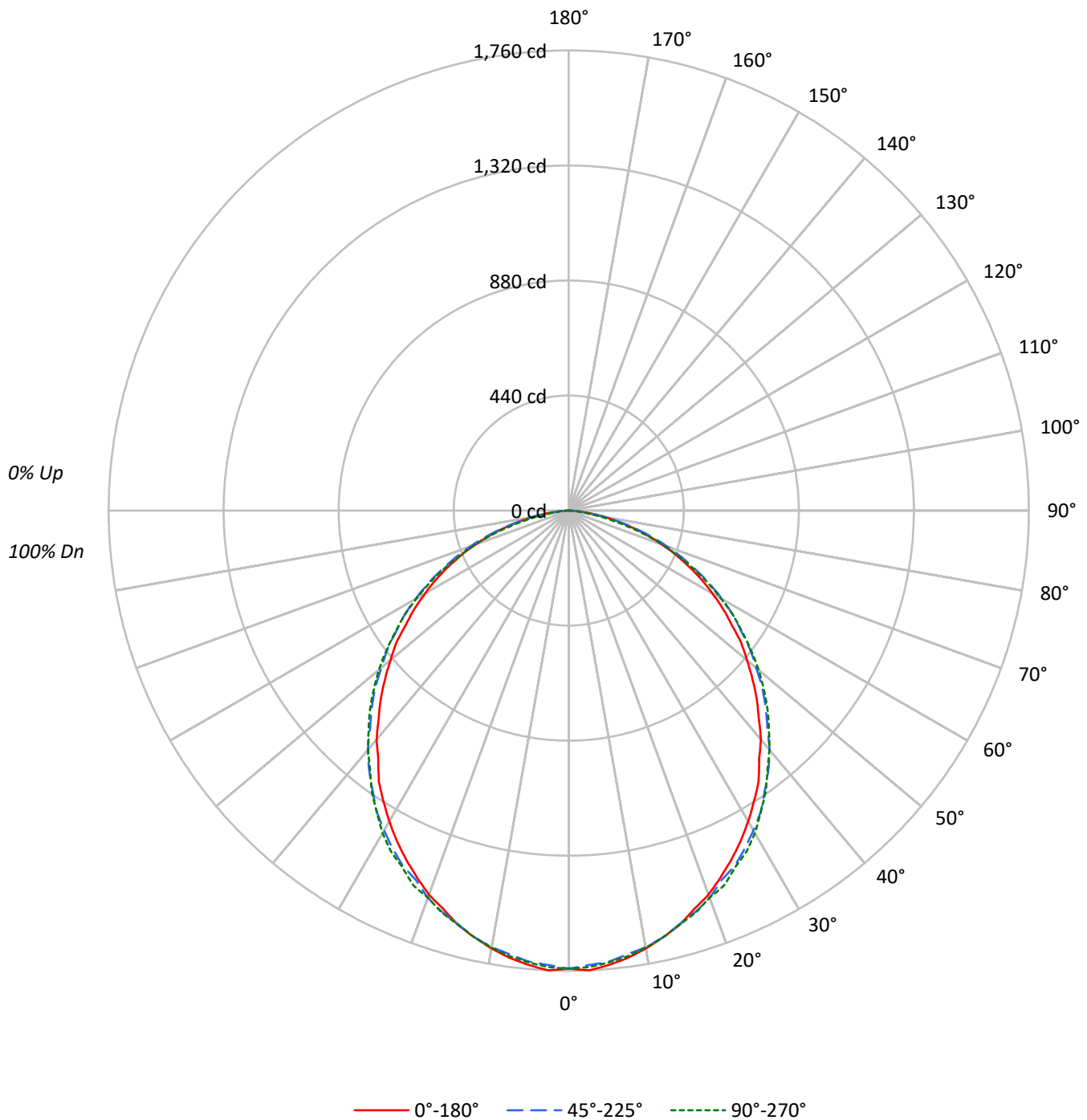
Lumens per Lamp: N/A
Luminaire Lumens: 4499.1 lumens
Efficiency: N/A
Efficacy: 68.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 66
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					0
RW	70	50	30	10	70	50	30	10	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	100		
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85		
2	100	92	85	79	97	90	84	79	86	81	77	83	79	75	80	76	73	71		
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60		
4	83	72	63	57	81	70	62	56	68	61	55	66	59	55	63	58	54	52		
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39		
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35		
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31		
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28		
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4714	4714	4714
5°	4713	4680	4687
10°	4647	4632	4637
15°	4568	4562	4565
20°	4476	4514	4511
25°	4371	4456	4470
30°	4264	4389	4425
35°	4159	4294	4313
40°	4017	4199	4195
45°	3871	4053	4093
50°	3725	3917	3969
55°	3567	3779	3801
60°	3417	3644	3618
65°	3238	3421	3354
70°	2984	3142	2999
75°	2639	2748	2400
80°	2122	2152	1677
85°	1389	1331	976



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.6	3.7
10°-20°	462.9	10.3
20°-30°	689.2	15.3
30°-40°	811.3	18.0
40°-50°	813.4	18.1
50°-60°	713.3	15.9
60°-70°	521.6	11.6
70°-80°	268.8	6.0
80°-90°	53.9	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°	1316.8	29.3
0°-40°	2128.1	47.3
0°-60°	3654.8	81.2
0°-90°	4499.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4499.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1752	1752	1752	1752	1752	
5°	1745	1733	1732	1744	1735	165
15°	1640	1642	1638	1648	1639	461
25°	1472	1479	1501	1522	1506	678
35°	1266	1272	1307	1322	1313	788
45°	1017	1022	1065	1078	1076	784
55°	760	778	805	817	810	683
65°	508	520	537	535	527	503
75°	254	256	264	246	231	269
85°	45	44	43	34	32	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1751.6	1751.6	1751.6	1751.6	1751.6
2.5°	1760.2	1751.6	1740.1	1749.7	1747.8
5°	1744.9	1733.4	1732.4	1743.9	1735.3
7.5°	1725.7	1723.8	1712.3	1724.8	1720.0
10°	1700.8	1698.9	1695.1	1703.7	1697.0
12.5°	1671.2	1669.2	1671.2	1675.9	1671.2
15°	1639.6	1642.4	1637.6	1648.2	1638.6
17.5°	1597.4	1600.3	1609.9	1613.7	1612.7
20°	1562.9	1564.9	1576.3	1591.7	1575.4
22.5°	1517.9	1522.7	1528.5	1556.2	1552.4
25°	1472.0	1478.7	1500.7	1521.8	1505.5
27.5°	1424.1	1430.8	1457.6	1472.9	1471.0
30°	1372.4	1379.1	1412.6	1433.7	1424.1
32.5°	1318.7	1330.2	1366.6	1384.8	1366.6
35°	1266.1	1271.8	1307.2	1321.6	1313.0
37.5°	1196.1	1218.2	1253.6	1263.2	1247.9
40°	1143.5	1144.4	1195.2	1195.2	1194.2
42.5°	1075.5	1090.8	1124.3	1142.5	1132.9
45°	1017.1	1021.8	1064.9	1078.3	1075.5
47.5°	952.9	972.0	1003.7	1019.0	1011.3
50°	889.7	903.1	935.7	955.8	948.1
52.5°	831.3	841.8	875.3	886.8	879.2
55°	760.4	777.6	805.4	816.9	810.2
57.5°	699.1	711.6	746.0	749.9	746.0
60°	634.9	649.3	677.1	680.0	672.3
62.5°	573.7	583.2	608.1	609.1	600.5
65°	508.5	520.0	537.3	535.3	526.7
67.5°	444.4	452.0	468.3	461.6	452.0
70°	379.2	385.9	399.4	389.8	381.2
72.5°	316.0	320.8	332.3	318.0	307.4
75°	253.8	255.7	264.3	246.1	230.8
77.5°	192.5	194.4	199.2	181.0	163.8
80°	136.9	136.9	138.9	119.7	108.2
82.5°	86.2	86.2	85.2	70.9	64.2
85°	45.0	44.1	43.1	34.5	31.6
87.5°	16.3	16.3	13.4	12.4	13.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)