

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: P485965

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-4LO-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: P485965
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-LD4-4LO-27-120-EDD
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

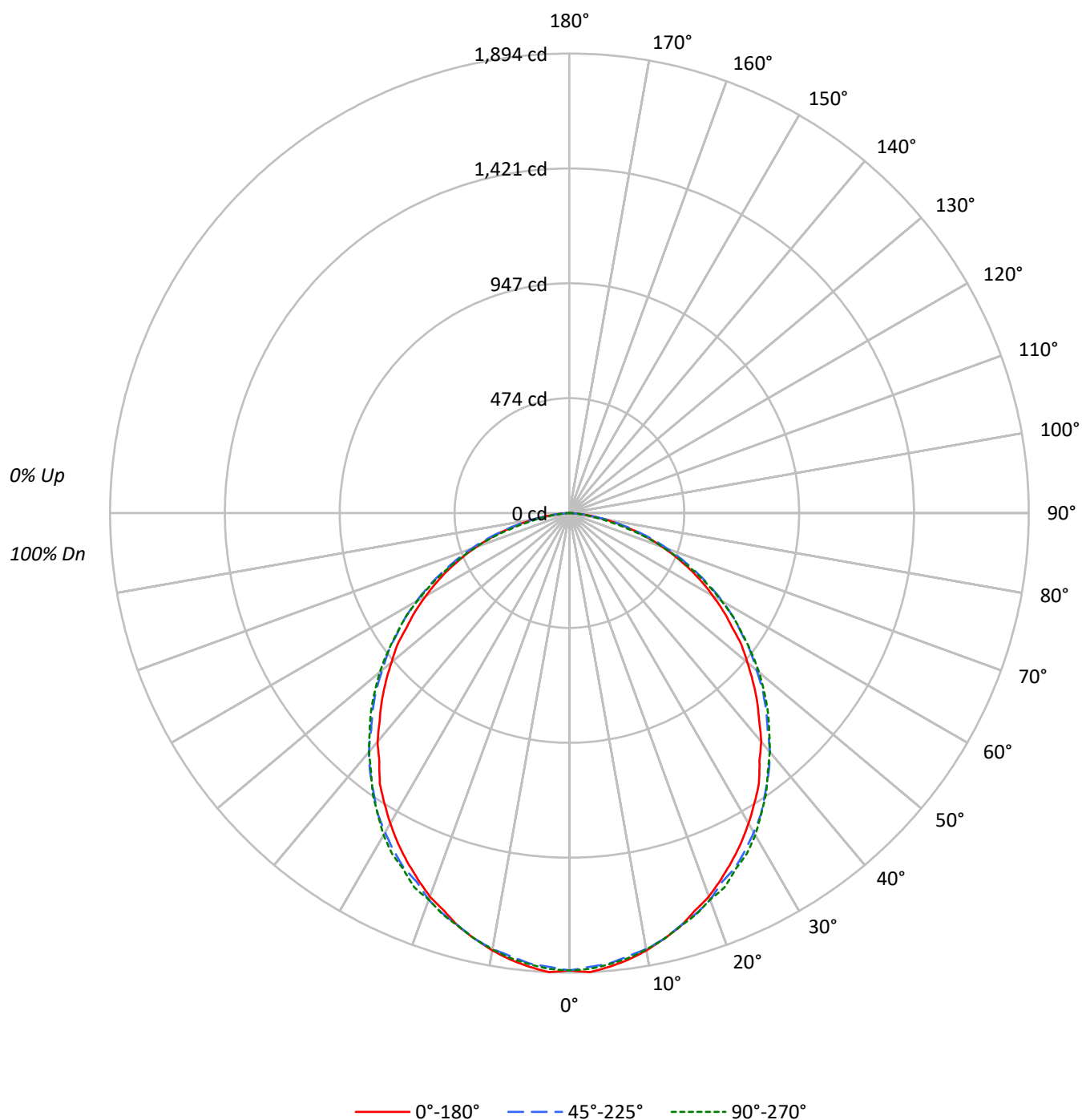
Lumens per Lamp: N/A
Luminaire Lumens: 4841.7 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 46.8
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
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°	5072	5072	5072
5°	5072	5036	5045
10°	5002	4985	4990
15°	4915	4910	4913
20°	4817	4858	4855
25°	4703	4795	4810
30°	4589	4723	4762
35°	4476	4621	4642
40°	4323	4518	4515
45°	4165	4361	4405
50°	4008	4215	4271
55°	3839	4066	4091
60°	3677	3921	3894
65°	3485	3682	3609
70°	3211	3382	3227
75°	2839	2957	2583
80°	2284	2315	1805
85°	1494	1433	1050



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.2	3.7
10°-20°	498.2	10.3
20°-30°	741.7	15.3
30°-40°	873.1	18.0
40°-50°	875.4	18.1
50°-60°	767.6	15.9
60°-70°	561.3	11.6
70°-80°	289.3	6.0
80°-90°	58.0	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°	1417.1	29.3
0°-40°	2290.2	47.3
0°-60°	3933.1	81.2
0°-90°	4841.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4841.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1885	1885	1885	1885	1885	
5°	1878	1865	1864	1877	1868	178
15°	1764	1768	1762	1774	1763	497
25°	1584	1591	1615	1638	1620	730
35°	1362	1369	1407	1422	1413	849
45°	1094	1100	1146	1160	1157	843
55°	818	837	867	879	872	735
65°	547	560	578	576	567	541
75°	273	275	284	265	248	289
85°	48	47	46	37	34	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1885.0	1885.0	1885.0	1885.0	1885.0
2.5°	1894.3	1885.0	1872.6	1882.9	1880.9
5°	1877.8	1865.4	1864.4	1876.7	1867.5
7.5°	1857.2	1855.1	1842.7	1856.1	1851.0
10°	1830.4	1828.3	1824.2	1833.5	1826.2
12.5°	1798.4	1796.4	1798.4	1803.6	1798.4
15°	1764.4	1767.5	1762.3	1773.7	1763.4
17.5°	1719.1	1722.1	1732.5	1736.6	1735.5
20°	1682.0	1684.0	1696.4	1712.9	1695.4
22.5°	1633.5	1638.7	1644.9	1674.7	1670.6
25°	1584.0	1591.3	1615.0	1637.6	1620.1
27.5°	1532.5	1539.7	1568.6	1585.1	1583.0
30°	1476.9	1484.1	1520.1	1542.8	1532.5
32.5°	1419.1	1431.5	1470.7	1490.3	1470.7
35°	1362.5	1368.6	1406.8	1422.2	1413.0
37.5°	1287.2	1310.9	1349.1	1359.4	1342.9
40°	1230.5	1231.6	1286.2	1286.2	1285.2
42.5°	1157.4	1173.9	1209.9	1229.5	1219.2
45°	1094.5	1099.7	1146.0	1160.5	1157.4
47.5°	1025.5	1046.1	1080.1	1096.6	1088.3
50°	957.4	971.9	1006.9	1028.5	1020.3
52.5°	894.6	905.9	942.0	954.3	946.1
55°	818.3	836.9	866.7	879.1	871.9
57.5°	752.3	765.7	802.8	807.0	802.8
60°	683.3	698.8	728.6	731.7	723.5
62.5°	617.3	627.6	654.4	655.5	646.2
65°	547.3	559.6	578.2	576.1	566.8
67.5°	478.2	486.4	504.0	496.8	486.4
70°	408.1	415.3	429.8	419.5	410.2
72.5°	340.1	345.3	357.6	342.2	330.8
75°	273.1	275.2	284.4	264.9	248.4
77.5°	207.2	209.2	214.4	194.8	176.2
80°	147.4	147.4	149.4	128.8	116.5
82.5°	92.8	92.8	91.7	76.3	69.1
85°	48.4	47.4	46.4	37.1	34.0
87.5°	17.5	17.5	14.4	13.4	14.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)