

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: P485944

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-3STD-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: P485944
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-LD4-3STD-35-120-EDD-90
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

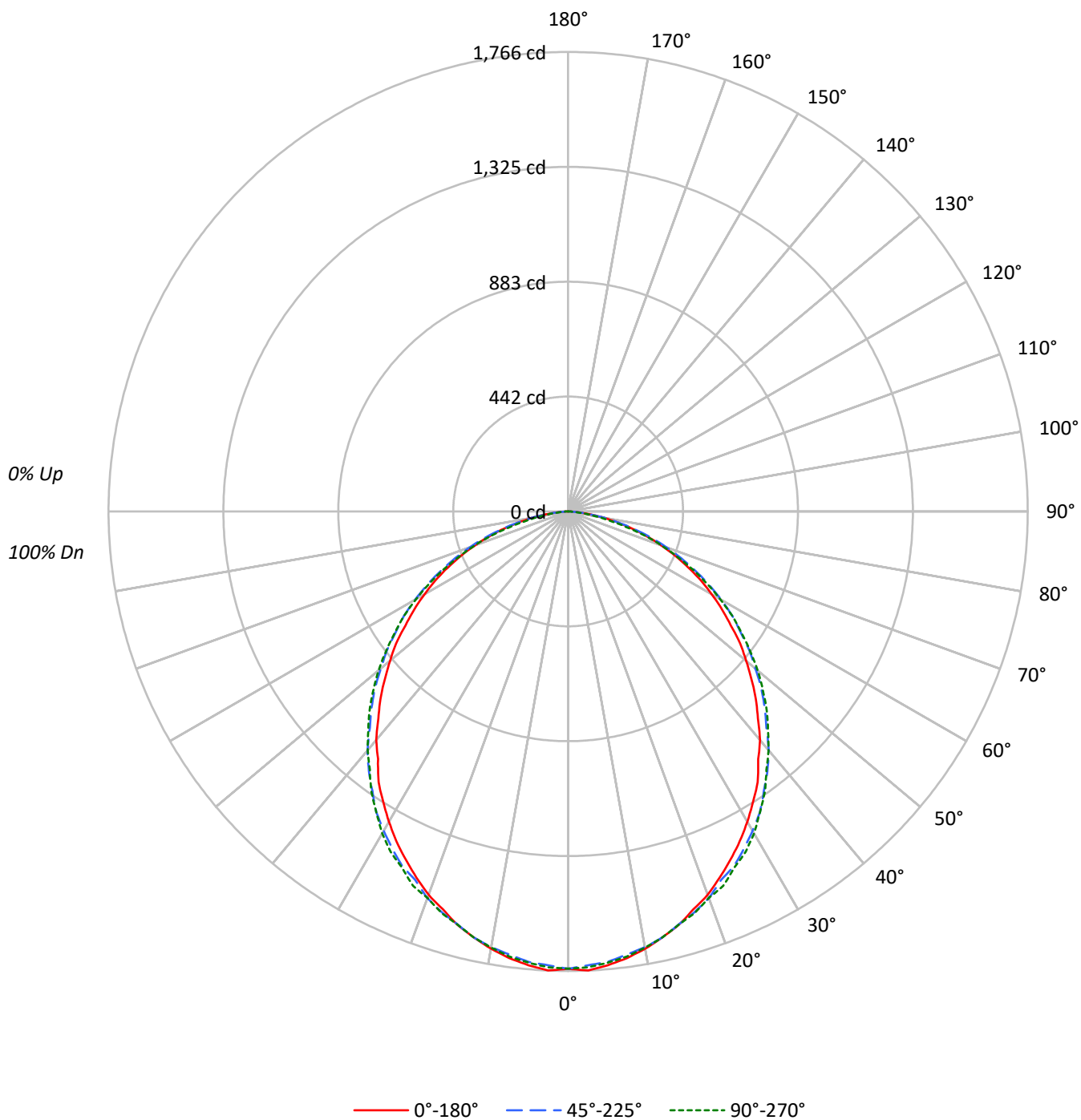
Lumens per Lamp: N/A
Luminaire Lumens: 4513.5 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
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				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0			
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°	4729	4729	4729
5°	4729	4695	4703
10°	4662	4647	4652
15°	4582	4577	4579
20°	4490	4529	4526
25°	4385	4470	4484
30°	4278	4403	4439
35°	4172	4308	4327
40°	4030	4212	4209
45°	3883	4066	4106
50°	3736	3930	3982
55°	3579	3791	3813
60°	3428	3655	3630
65°	3249	3432	3365
70°	2994	3152	3009
75°	2647	2757	2407
80°	2129	2159	1683
85°	1396	1334	979



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.2	3.7
10°-20°	464.4	10.3
20°-30°	691.4	15.3
30°-40°	813.9	18.0
40°-50°	816.0	18.1
50°-60°	715.6	15.9
60°-70°	523.3	11.6
70°-80°	269.7	6.0
80°-90°	54.1	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°	1321.0	29.3
0°-40°	2134.9	47.3
0°-60°	3666.5	81.2
0°-90°	4513.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4513.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1757	1757	1757	1757	1757	
5°	1750	1739	1738	1750	1741	166
15°	1645	1648	1643	1653	1644	463
25°	1477	1483	1506	1527	1510	680
35°	1270	1276	1311	1326	1317	791
45°	1020	1025	1068	1082	1079	786
55°	763	780	808	820	813	685
65°	510	522	539	537	528	505
75°	255	256	265	247	232	270
85°	45	44	43	35	32	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1757.2	1757.2	1757.2	1757.2	1757.2
2.5°	1765.9	1757.2	1745.7	1755.3	1753.4
5°	1750.5	1739.0	1738.0	1749.5	1740.9
7.5°	1731.3	1729.3	1717.8	1730.3	1725.5
10°	1706.3	1704.4	1700.5	1709.2	1702.4
12.5°	1676.5	1674.6	1676.5	1681.3	1676.5
15°	1644.8	1647.7	1642.9	1653.4	1643.8
17.5°	1602.5	1605.4	1615.0	1618.9	1617.9
20°	1567.9	1569.9	1581.4	1596.8	1580.4
22.5°	1522.8	1527.6	1533.4	1561.2	1557.4
25°	1476.7	1483.4	1505.5	1526.6	1510.3
27.5°	1428.6	1435.4	1462.3	1477.6	1475.7
30°	1376.8	1383.5	1417.1	1438.2	1428.6
32.5°	1322.9	1334.5	1371.0	1389.2	1371.0
35°	1270.1	1275.9	1311.4	1325.8	1317.2
37.5°	1200.0	1222.1	1257.6	1267.2	1251.9
40°	1147.1	1148.1	1199.0	1199.0	1198.1
42.5°	1078.9	1094.3	1127.9	1146.2	1136.6
45°	1020.3	1025.1	1068.4	1081.8	1078.9
47.5°	955.9	975.2	1006.9	1022.2	1014.5
50°	892.5	906.0	938.7	958.8	951.1
52.5°	833.9	844.5	878.1	889.7	882.0
55°	762.8	780.1	808.0	819.5	812.8
57.5°	701.3	713.8	748.4	752.3	748.4
60°	637.0	651.4	679.2	682.1	674.4
62.5°	575.5	585.1	610.1	611.0	602.4
65°	510.2	521.7	539.0	537.1	528.4
67.5°	445.8	453.5	469.8	463.1	453.5
70°	380.5	387.2	400.6	391.0	382.4
72.5°	317.0	321.9	333.4	319.0	308.4
75°	254.6	256.5	265.2	246.9	231.5
77.5°	193.1	195.0	199.8	181.6	164.3
80°	137.4	137.4	139.3	120.1	108.6
82.5°	86.5	86.5	85.5	71.1	64.4
85°	45.2	44.2	43.2	34.6	31.7
87.5°	16.3	16.3	13.5	12.5	13.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)