

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: P485968

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-4LO-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: P485968
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-35-120-EDD-90
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

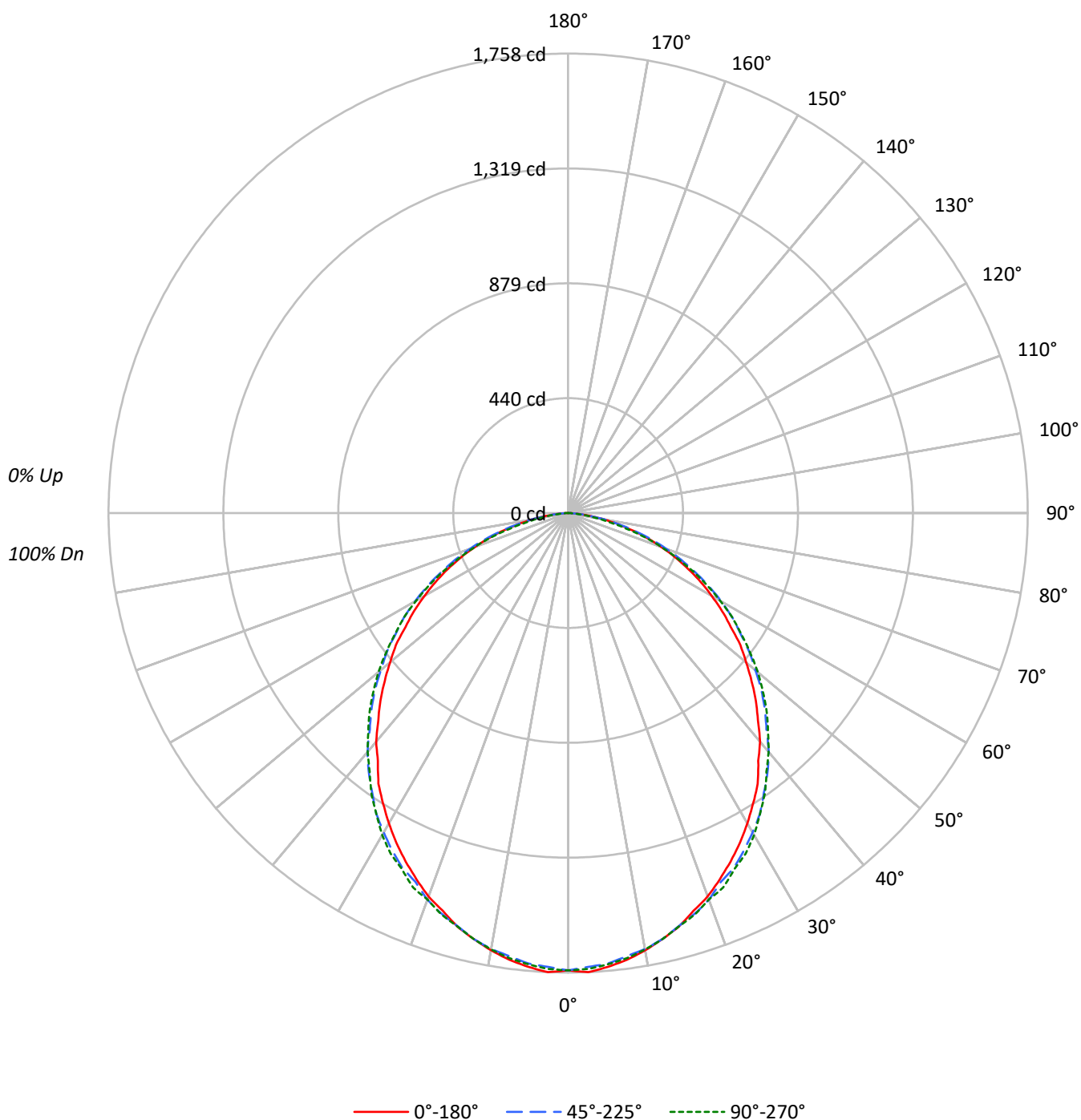
Lumens per Lamp: N/A
Luminaire Lumens: 4493.9 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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					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°	4708	4708	4708
5°	4708	4674	4682
10°	4642	4626	4632
15°	4562	4557	4560
20°	4470	4509	4506
25°	4366	4451	4465
30°	4259	4384	4420
35°	4154	4289	4308
40°	4012	4194	4190
45°	3866	4048	4088
50°	3720	3913	3965
55°	3563	3774	3797
60°	3413	3640	3614
65°	3234	3417	3350
70°	2980	3139	2995
75°	2636	2745	2397
80°	2120	2149	1675
85°	1389	1328	976



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.4	3.7
10°-20°	462.4	10.3
20°-30°	688.4	15.3
30°-40°	810.3	18.0
40°-50°	812.5	18.1
50°-60°	712.5	15.9
60°-70°	521.0	11.6
70°-80°	268.5	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°	1315.3	29.3
0°-40°	2125.6	47.3
0°-60°	3650.6	81.2
0°-90°	4493.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4493.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1750	1750	1750	1750	1750	
5°	1743	1731	1730	1742	1733	165
15°	1638	1640	1636	1646	1637	461
25°	1470	1477	1499	1520	1504	677
35°	1265	1270	1306	1320	1312	788
45°	1016	1021	1064	1077	1074	783
55°	760	777	804	816	809	682
65°	508	519	537	535	526	502
75°	254	255	264	246	230	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°	1749.6	1749.6	1749.6	1749.6	1749.6
2.5°	1758.2	1749.6	1738.1	1747.7	1745.7
5°	1742.9	1731.4	1730.4	1741.9	1733.3
7.5°	1723.7	1721.8	1710.4	1722.8	1718.0
10°	1698.9	1697.0	1693.1	1701.7	1695.1
12.5°	1669.2	1667.3	1669.2	1674.0	1669.2
15°	1637.7	1640.5	1635.7	1646.3	1636.7
17.5°	1595.6	1598.4	1608.0	1611.8	1610.9
20°	1561.1	1563.0	1574.5	1589.8	1573.6
22.5°	1516.2	1521.0	1526.7	1554.4	1550.6
25°	1470.3	1477.0	1499.0	1520.0	1503.7
27.5°	1422.4	1429.1	1455.9	1471.2	1469.3
30°	1370.8	1377.5	1410.9	1432.0	1422.4
32.5°	1317.2	1328.7	1365.0	1383.2	1365.0
35°	1264.6	1270.3	1305.7	1320.1	1311.5
37.5°	1194.8	1216.8	1252.2	1261.7	1246.4
40°	1142.2	1143.1	1193.8	1193.8	1192.8
42.5°	1074.2	1089.5	1123.0	1141.2	1131.6
45°	1015.9	1020.7	1063.7	1077.1	1074.2
47.5°	951.8	970.9	1002.5	1017.8	1010.1
50°	888.7	902.1	934.6	954.7	947.0
52.5°	830.3	840.8	874.3	885.8	878.1
55°	759.5	776.7	804.5	816.0	809.3
57.5°	698.3	710.7	745.2	749.0	745.2
60°	634.2	648.6	676.3	679.2	671.5
62.5°	573.0	582.6	607.4	608.4	599.8
65°	507.9	519.4	536.6	534.7	526.1
67.5°	443.9	451.5	467.8	461.1	451.5
70°	378.8	385.5	398.9	389.3	380.7
72.5°	315.7	320.5	331.9	317.6	307.1
75°	253.5	255.4	264.0	245.8	230.5
77.5°	192.3	194.2	199.0	180.8	163.6
80°	136.8	136.8	138.7	119.6	108.1
82.5°	86.1	86.1	85.1	70.8	64.1
85°	45.0	44.0	43.0	34.4	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)