

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: P485942

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-3STD-30-120-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: P485942
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-30-120-EDD-90
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

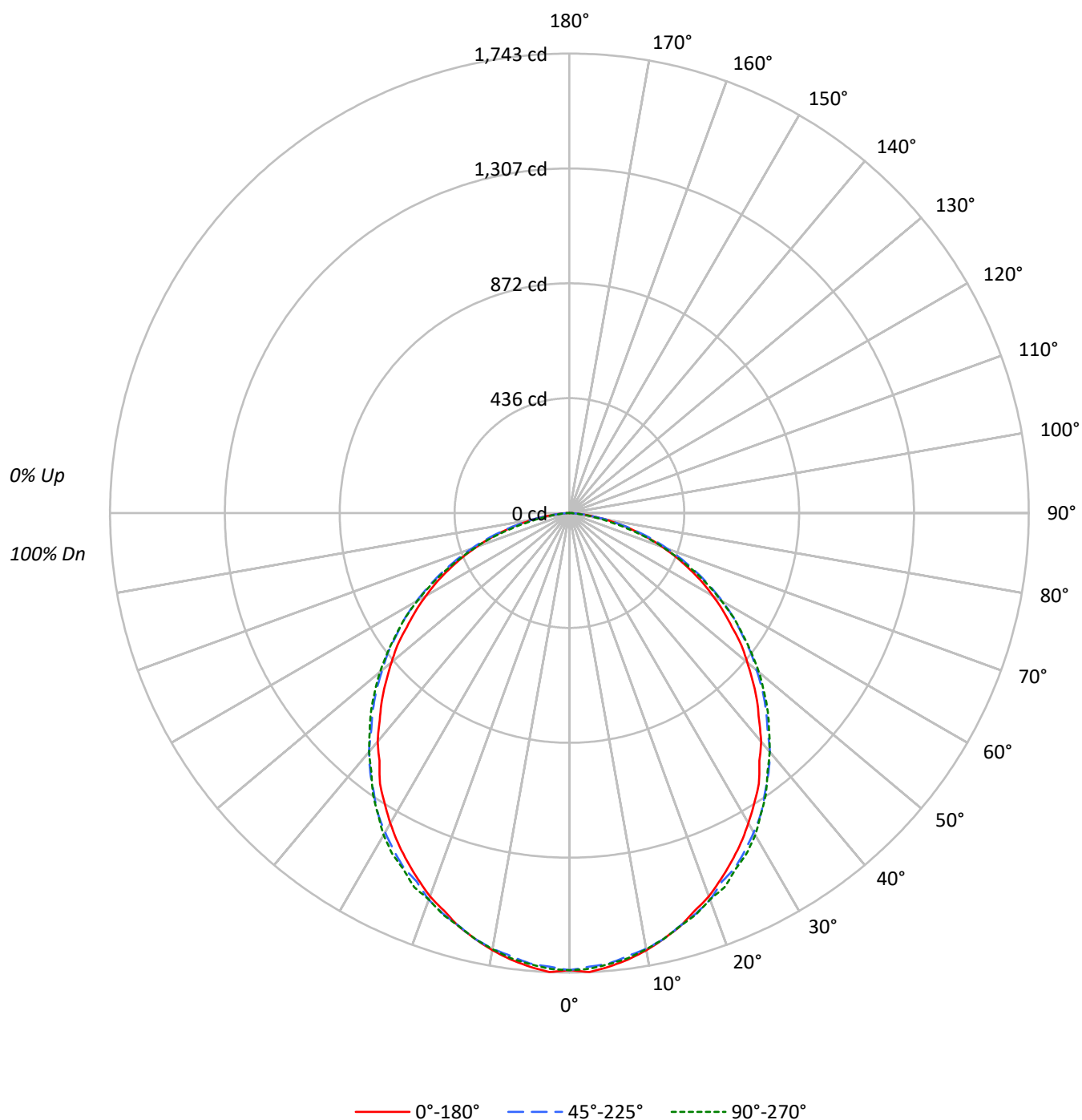
Lumens per Lamp: N/A
Luminaire Lumens: 4454.0 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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					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°	4666	4666	4666
5°	4666	4633	4640
10°	4601	4585	4591
15°	4522	4517	4519
20°	4431	4469	4466
25°	4327	4411	4425
30°	4222	4345	4381
35°	4118	4251	4270
40°	3977	4156	4153
45°	3832	4012	4052
50°	3687	3878	3929
55°	3532	3741	3763
60°	3383	3608	3582
65°	3205	3387	3320
70°	2954	3111	2969
75°	2612	2721	2376
80°	2101	2131	1660
85°	1377	1318	966



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.0	3.7
10°-20°	458.3	10.3
20°-30°	682.3	15.3
30°-40°	803.1	18.0
40°-50°	805.3	18.1
50°-60°	706.1	15.9
60°-70°	516.3	11.6
70°-80°	266.1	6.0
80°-90°	53.4	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°	1303.6	29.3
0°-40°	2106.8	47.3
0°-60°	3618.2	81.2
0°-90°	4454.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4454.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1734	1734	1734	1734	1734	
5°	1727	1716	1715	1726	1718	164
15°	1623	1626	1621	1632	1622	457
25°	1457	1464	1486	1506	1490	671
35°	1253	1259	1294	1308	1300	781
45°	1007	1012	1054	1068	1065	776
55°	753	770	797	809	802	676
65°	503	515	532	530	521	498
75°	251	253	262	244	228	266
85°	45	44	43	34	31	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1734.0	1734.0	1734.0	1734.0	1734.0
2.5°	1742.6	1734.0	1722.7	1732.1	1730.2
5°	1727.4	1716.0	1715.1	1726.5	1717.9
7.5°	1708.4	1706.5	1695.2	1707.5	1702.8
10°	1683.8	1681.9	1678.1	1686.6	1680.0
12.5°	1654.4	1652.5	1654.4	1659.1	1654.4
15°	1623.1	1626.0	1621.2	1631.6	1622.2
17.5°	1581.4	1584.2	1593.7	1597.5	1596.6
20°	1547.3	1549.2	1560.5	1575.7	1559.6
22.5°	1502.7	1507.5	1513.1	1540.6	1536.8
25°	1457.2	1463.8	1485.6	1506.5	1490.4
27.5°	1409.8	1416.4	1443.0	1458.2	1456.3
30°	1358.6	1365.2	1398.4	1419.3	1409.8
32.5°	1305.5	1316.9	1352.9	1370.9	1352.9
35°	1253.4	1259.1	1294.1	1308.4	1299.8
37.5°	1184.2	1206.0	1241.0	1250.5	1235.4
40°	1132.0	1133.0	1183.2	1183.2	1182.3
42.5°	1064.7	1079.9	1113.0	1131.1	1121.6
45°	1006.9	1011.6	1054.3	1067.5	1064.7
47.5°	943.3	962.3	993.6	1008.8	1001.2
50°	880.8	894.0	926.3	946.2	938.6
52.5°	822.9	833.4	866.5	877.9	870.3
55°	752.8	769.8	797.3	808.7	802.1
57.5°	692.1	704.4	738.6	742.3	738.6
60°	628.6	642.8	670.3	673.1	665.6
62.5°	567.9	577.4	602.0	603.0	594.4
65°	503.4	514.8	531.9	530.0	521.4
67.5°	439.9	447.5	463.6	457.0	447.5
70°	375.4	382.1	395.4	385.9	377.3
72.5°	312.9	317.6	329.0	314.8	304.3
75°	251.2	253.1	261.7	243.7	228.5
77.5°	190.6	192.5	197.2	179.2	162.1
80°	135.6	135.6	137.5	118.5	107.1
82.5°	85.3	85.3	84.4	70.2	63.5
85°	44.6	43.6	42.7	34.1	31.3
87.5°	16.1	16.1	13.3	12.3	13.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)