

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: P485887

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-2HI-40-120-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: P485887
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-LD4-2HI-40-120-EDD
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

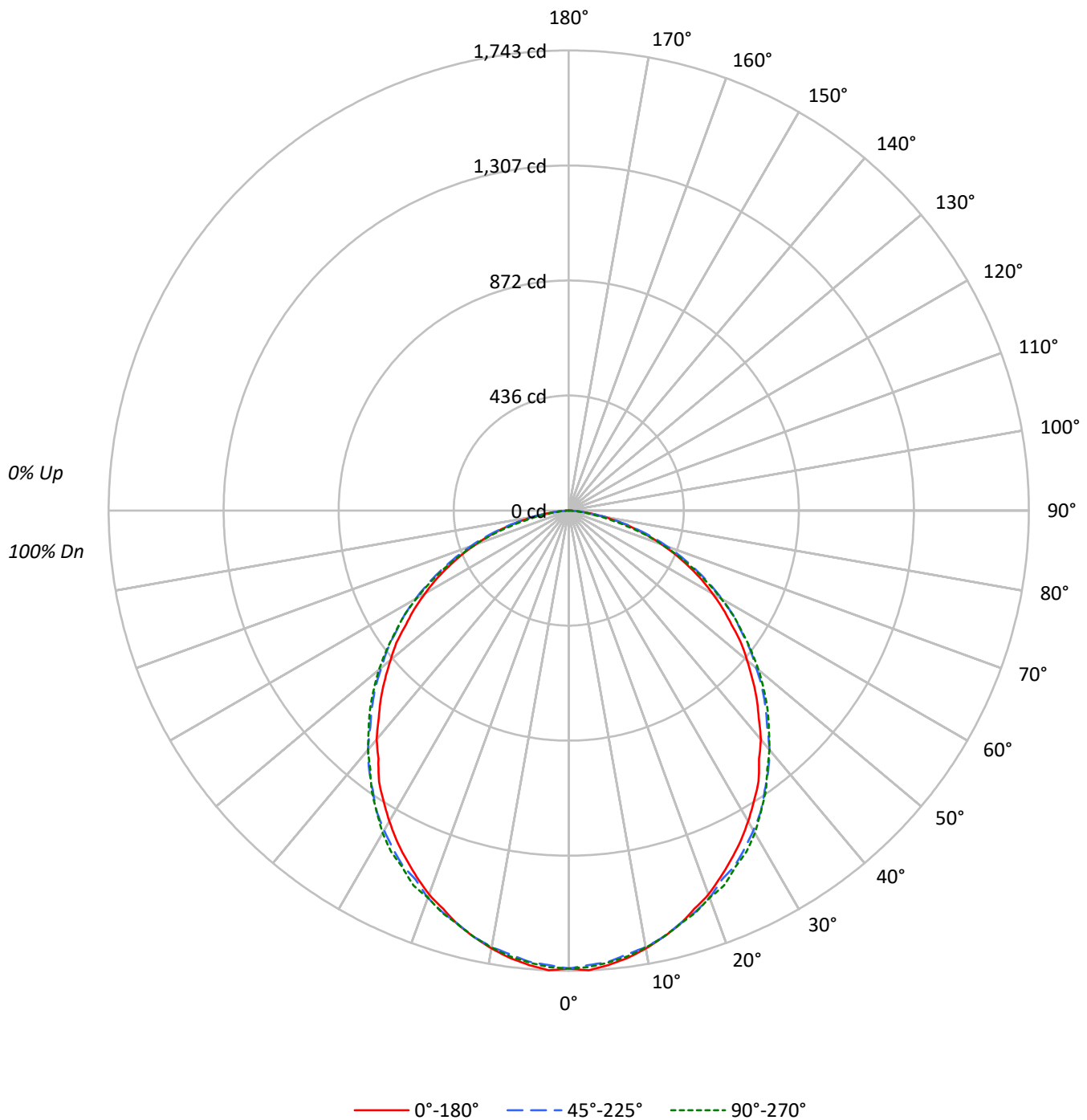
Lumens per Lamp: N/A
Luminaire Lumens: 4455.0 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 44
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°	4667	4667	4667
5°	4667	4634	4642
10°	4602	4586	4592
15°	4523	4518	4520
20°	4432	4470	4467
25°	4328	4412	4426
30°	4222	4346	4382
35°	4118	4252	4271
40°	3978	4157	4154
45°	3833	4013	4053
50°	3688	3879	3930
55°	3532	3742	3764
60°	3384	3608	3583
65°	3206	3387	3321
70°	2954	3111	2969
75°	2613	2721	2376
80°	2101	2131	1661
85°	1377	1318	966



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.0	3.7
10°-20°	458.4	10.3
20°-30°	682.5	15.3
30°-40°	803.3	18.0
40°-50°	805.4	18.1
50°-60°	706.3	15.9
60°-70°	516.5	11.6
70°-80°	266.2	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°	1303.9	29.3
0°-40°	2107.2	47.3
0°-60°	3619.0	81.2
0°-90°	4455.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4455.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1734	1734	1734	1734	1734	
5°	1728	1716	1716	1727	1718	164
15°	1624	1626	1622	1632	1622	457
25°	1458	1464	1486	1507	1491	671
35°	1254	1259	1294	1309	1300	781
45°	1007	1012	1054	1068	1065	776
55°	753	770	798	809	802	676
65°	504	515	532	530	522	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°	1734.4	1734.4	1734.4	1734.4	1734.4
2.5°	1743.0	1734.4	1723.1	1732.5	1730.6
5°	1727.8	1716.4	1715.5	1726.8	1718.3
7.5°	1708.8	1706.9	1695.6	1707.9	1703.1
10°	1684.2	1682.3	1678.5	1687.0	1680.4
12.5°	1654.8	1652.9	1654.8	1659.5	1654.8
15°	1623.5	1626.3	1621.6	1632.0	1622.5
17.5°	1581.8	1584.6	1594.1	1597.9	1596.9
20°	1547.6	1549.5	1560.9	1576.1	1559.9
22.5°	1503.0	1507.8	1513.5	1541.0	1537.2
25°	1457.5	1464.2	1486.0	1506.8	1490.7
27.5°	1410.1	1416.8	1443.3	1458.5	1456.6
30°	1358.9	1365.5	1398.7	1419.6	1410.1
32.5°	1305.8	1317.2	1353.2	1371.2	1353.2
35°	1253.6	1259.3	1294.4	1308.6	1300.1
37.5°	1184.4	1206.2	1241.3	1250.8	1235.6
40°	1132.3	1133.2	1183.5	1183.5	1182.5
42.5°	1064.9	1080.1	1113.3	1131.3	1121.8
45°	1007.1	1011.8	1054.5	1067.8	1064.9
47.5°	943.6	962.5	993.8	1009.0	1001.4
50°	881.0	894.2	926.5	946.4	938.8
52.5°	823.1	833.6	866.7	878.1	870.5
55°	752.9	770.0	797.5	808.9	802.3
57.5°	692.3	704.6	738.7	742.5	738.7
60°	628.7	642.9	670.4	673.3	665.7
62.5°	568.0	577.5	602.2	603.1	594.6
65°	503.5	514.9	532.0	530.1	521.6
67.5°	440.0	447.6	463.7	457.1	447.6
70°	375.5	382.2	395.4	386.0	377.4
72.5°	312.9	317.7	329.1	314.8	304.4
75°	251.3	253.2	261.7	243.7	228.5
77.5°	190.6	192.5	197.2	179.2	162.2
80°	135.6	135.6	137.5	118.5	107.2
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)