

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: P485883

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-2HI-30-120-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: P485883
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-30-120-EDD
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

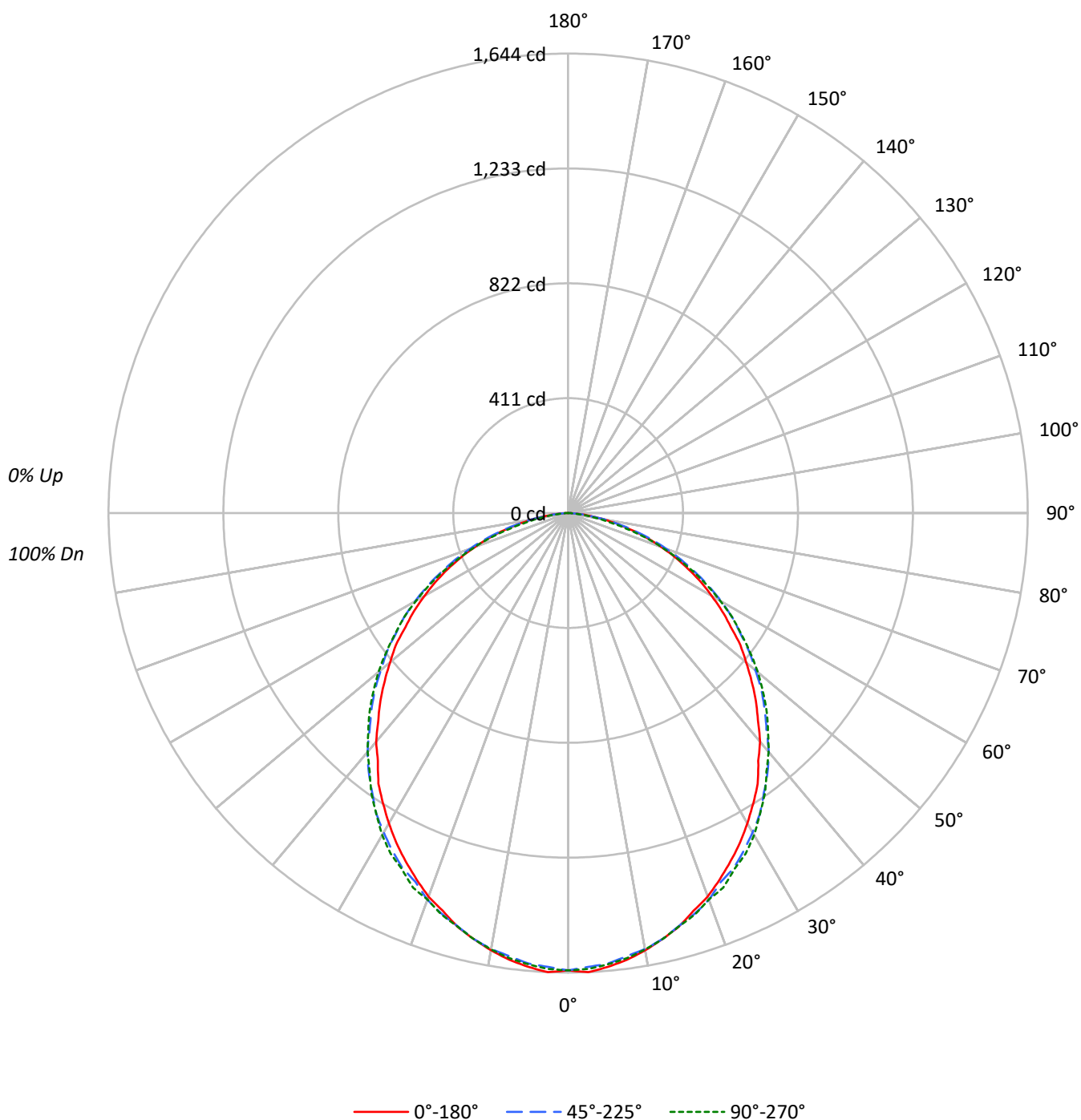
Lumens per Lamp: N/A
Luminaire Lumens: 4202.5 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	4403	4403	4403
5°	4403	4371	4378
10°	4341	4326	4331
15°	4267	4262	4264
20°	4181	4216	4214
25°	4082	4162	4175
30°	3983	4100	4133
35°	3885	4011	4029
40°	3752	3922	3919
45°	3615	3785	3823
50°	3479	3659	3707
55°	3332	3529	3551
60°	3192	3404	3380
65°	3025	3195	3133
70°	2787	2935	2801
75°	2465	2567	2242
80°	1982	2010	1567
85°	1297	1244	911



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.8	3.7
10°-20°	432.4	10.3
20°-30°	643.8	15.3
30°-40°	757.8	18.0
40°-50°	759.8	18.1
50°-60°	666.3	15.9
60°-70°	487.2	11.6
70°-80°	251.1	6.0
80°-90°	50.4	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°	1230.0	29.3
0°-40°	1987.8	47.3
0°-60°	3413.9	81.2
0°-90°	4202.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4202.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1636	1636	1636	1636	1636	
5°	1630	1619	1618	1629	1621	154
15°	1532	1534	1530	1540	1531	431
25°	1375	1381	1402	1421	1406	633
35°	1183	1188	1221	1234	1226	736
45°	950	954	995	1007	1005	732
55°	710	726	752	763	757	638
65°	475	486	502	500	492	470
75°	237	239	247	230	216	251
85°	42	41	40	32	30	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1636.1	1636.1	1636.1	1636.1	1636.1
2.5°	1644.2	1636.1	1625.4	1634.3	1632.5
5°	1629.9	1619.1	1618.2	1629.0	1620.9
7.5°	1612.0	1610.2	1599.5	1611.1	1606.6
10°	1588.7	1586.9	1583.3	1591.4	1585.1
12.5°	1561.0	1559.2	1561.0	1565.5	1561.0
15°	1531.5	1534.1	1529.7	1539.5	1530.6
17.5°	1492.1	1494.8	1503.7	1507.3	1506.4
20°	1459.9	1461.7	1472.4	1486.7	1471.5
22.5°	1417.9	1422.3	1427.7	1453.6	1450.1
25°	1374.9	1381.2	1401.8	1421.4	1406.2
27.5°	1330.2	1336.5	1361.5	1375.8	1374.0
30°	1281.9	1288.1	1319.5	1339.1	1330.2
32.5°	1231.8	1242.5	1276.5	1293.5	1276.5
35°	1182.6	1188.0	1221.1	1234.5	1226.4
37.5°	1117.3	1137.9	1171.0	1179.9	1165.6
40°	1068.1	1069.0	1116.4	1116.4	1115.5
42.5°	1004.6	1018.9	1050.2	1067.2	1058.2
45°	950.0	954.5	994.7	1007.3	1004.6
47.5°	890.1	908.0	937.5	951.8	944.6
50°	831.0	843.6	874.0	892.8	885.6
52.5°	776.5	786.3	817.6	828.4	821.2
55°	710.3	726.4	752.3	763.0	756.8
57.5°	653.0	664.6	696.9	700.4	696.9
60°	593.1	606.5	632.4	635.1	628.0
62.5°	535.8	544.8	568.0	568.9	560.9
65°	475.0	485.7	501.8	500.1	492.0
67.5°	415.1	422.2	437.4	431.2	422.2
70°	354.2	360.5	373.0	364.1	356.0
72.5°	295.2	299.7	310.4	297.0	287.1
75°	237.1	238.8	246.9	229.9	215.6
77.5°	179.8	181.6	186.1	169.1	153.0
80°	127.9	127.9	129.7	111.8	101.1
82.5°	80.5	80.5	79.6	66.2	59.9
85°	42.0	41.1	40.3	32.2	29.5
87.5°	15.2	15.2	12.5	11.6	12.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)