

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: P486026

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-6HI-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: P486026
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-LD4-6HI-30-120-EDD-90
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

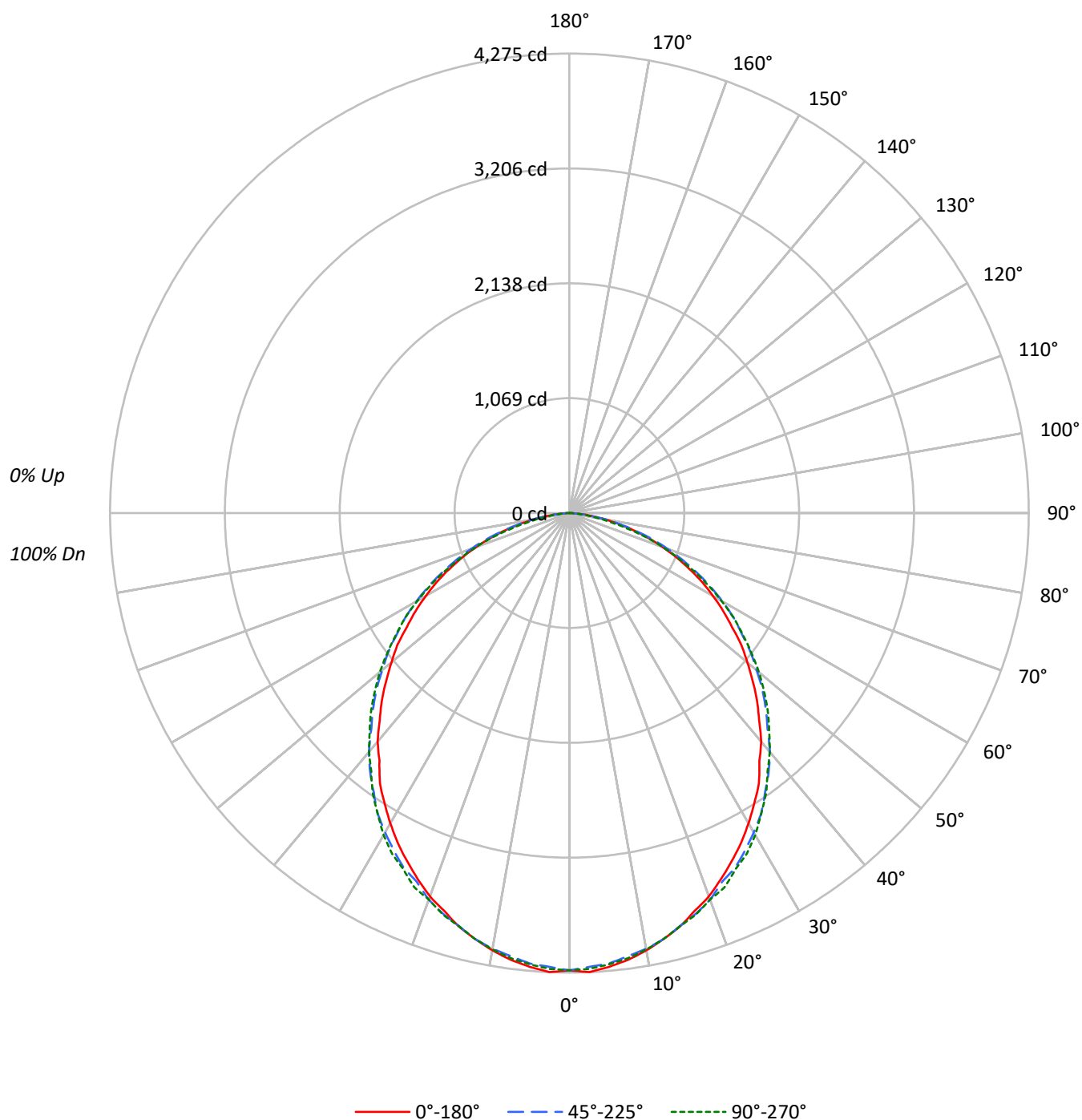
Lumens per Lamp: N/A
Luminaire Lumens: 10926.4 lumens
Efficiency: N/A
Efficacy: 82.8 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 132
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

TEST NUMBER: P486026

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-6HI-30-120-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P486026

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-6HI-30-120-EDD-90

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°	11447	11447	11447
5°	11447	11365	11384
10°	11287	11249	11261
15°	11093	11080	11086
20°	10870	10963	10956
25°	10614	10821	10856
30°	10356	10660	10747
35°	10101	10429	10475
40°	9755	10196	10188
45°	9400	9842	9940
50°	9046	9513	9639
55°	8664	9177	9231
60°	8299	8850	8787
65°	7864	8308	8145
70°	7246	7631	7283
75°	6408	6674	5828
80°	5154	5225	4073
85°	3375	3233	2371



TEST NUMBER: P486026

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-6HI-30-120-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	399.8	3.7
10°-20°	1124.3	10.3
20°-30°	1673.9	15.3
30°-40°	1970.2	18.0
40°-50°	1975.4	18.1
50°-60°	1732.3	15.9
60°-70°	1266.7	11.6
70°-80°	652.8	6.0
80°-90°	131.0	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°	3198.0	29.3
0°-40°	5168.2	47.3
0°-60°	8875.9	81.2
0°-90°	10926.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10926.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4254	4254	4254	4254	4254	
5°	4238	4210	4207	4235	4214	401
15°	3982	3989	3977	4003	3979	1121
25°	3575	3591	3644	3696	3656	1647
35°	3075	3089	3175	3210	3189	1915
45°	2470	2482	2586	2619	2612	1904
55°	1847	1889	1956	1984	1968	1658
65°	1235	1263	1305	1300	1279	1222
75°	616	621	642	598	560	653
85°	109	107	105	84	77	143
90°	0	0	0	0	0	



TEST NUMBER: P486026

CATALOG NUMBER: ORLG-24-2-INS-A125-LD4-6HI-30-120-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4253.9	4253.9	4253.9	4253.9	4253.9
2.5°	4274.8	4253.9	4226.0	4249.2	4244.6
5°	4237.6	4209.7	4207.4	4235.3	4214.4
7.5°	4191.1	4186.4	4158.5	4188.8	4177.1
10°	4130.6	4126.0	4116.7	4137.6	4121.3
12.5°	4058.5	4053.9	4058.5	4070.2	4058.5
15°	3981.8	3988.8	3977.1	4002.7	3979.4
17.5°	3879.4	3886.4	3909.7	3919.0	3916.7
20°	3795.7	3800.4	3828.3	3865.5	3825.9
22.5°	3686.4	3698.0	3712.0	3779.4	3770.1
25°	3574.8	3591.0	3644.5	3695.7	3656.2
27.5°	3458.5	3474.7	3539.9	3577.1	3572.4
30°	3332.9	3349.2	3430.6	3481.7	3458.5
32.5°	3202.6	3230.5	3318.9	3363.1	3318.9
35°	3074.7	3088.7	3174.7	3209.6	3188.7
37.5°	2904.9	2958.4	3044.5	3067.7	3030.5
40°	2777.0	2779.3	2902.6	2902.6	2900.3
42.5°	2611.9	2649.1	2730.5	2774.7	2751.4
45°	2470.0	2481.6	2586.3	2618.9	2611.9
47.5°	2314.2	2360.7	2437.4	2474.7	2456.0
50°	2160.7	2193.2	2272.3	2321.2	2302.5
52.5°	2018.8	2044.4	2125.8	2153.7	2135.1
55°	1846.7	1888.6	1956.0	1983.9	1967.6
57.5°	1697.8	1728.1	1811.8	1821.1	1811.8
60°	1542.0	1576.9	1644.3	1651.3	1632.7
62.5°	1393.2	1416.4	1476.9	1479.2	1458.3
65°	1235.0	1262.9	1304.8	1300.1	1279.2
67.5°	1079.2	1097.8	1137.3	1121.0	1097.8
70°	921.0	937.3	969.9	946.6	925.7
72.5°	767.5	779.1	807.1	772.2	746.6
75°	616.3	621.0	641.9	597.7	560.5
77.5°	467.5	472.1	483.8	439.6	397.7
80°	332.6	332.6	337.2	290.7	262.8
82.5°	209.3	209.3	207.0	172.1	155.8
85°	109.3	107.0	104.7	83.7	76.8
87.5°	39.5	39.5	32.6	30.2	32.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)