

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: P487223

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-3LO-20-120-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: P487223
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-24-4-INS-A125-LD4-3LO-20-120-EDD
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

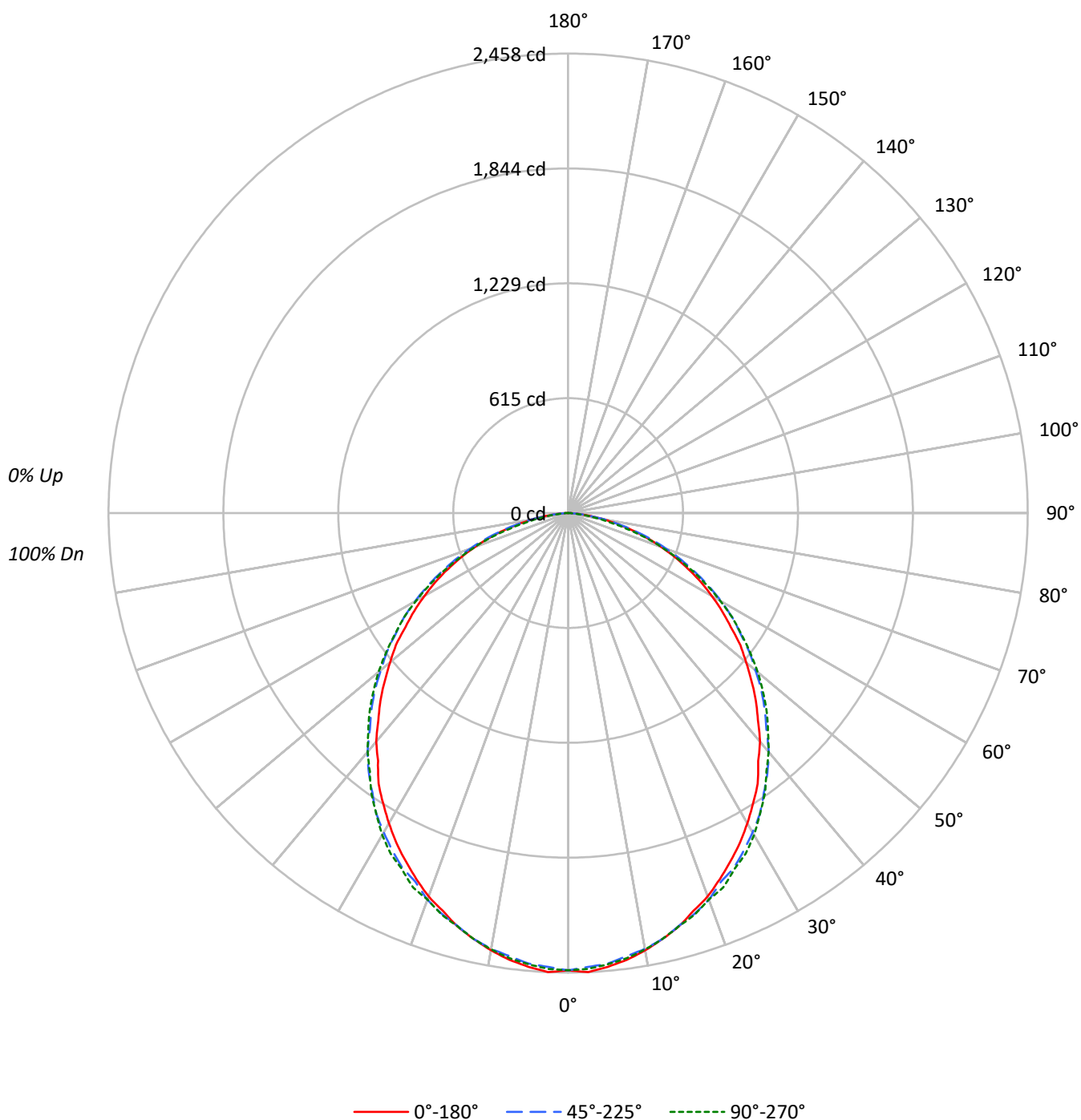
Lumens per Lamp: N/A
Luminaire Lumens: 6282.5 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 70.2
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: P487223

CATALOG NUMBER: ORLG-24-4-INS-A125-LD4-3LO-20-120-EDD

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°	3291	3291	3291
5°	3291	3267	3273
10°	3245	3234	3238
15°	3189	3185	3187
20°	3125	3152	3150
25°	3051	3111	3121
30°	2977	3065	3090
35°	2904	2998	3011
40°	2804	2931	2929
45°	2702	2830	2858
50°	2600	2735	2771
55°	2491	2638	2654
60°	2386	2544	2526
65°	2261	2388	2342
70°	2083	2194	2094
75°	1842	1919	1675
80°	1481	1502	1171
85°	971	929	681



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.9	3.7
10°-20°	646.5	10.3
20°-30°	962.4	15.3
30°-40°	1132.8	18.0
40°-50°	1135.8	18.1
50°-60°	996.0	15.9
60°-70°	728.3	11.6
70°-80°	375.4	6.0
80°-90°	75.3	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°	1838.8	29.3
0°-40°	2971.6	47.3
0°-60°	5103.5	81.2
0°-90°	6282.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6282.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2446	2446	2446	2446	2446	
5°	2437	2420	2419	2435	2423	231
15°	2290	2294	2287	2302	2288	644
25°	2055	2065	2096	2125	2102	947
35°	1768	1776	1825	1846	1833	1101
45°	1420	1427	1487	1506	1502	1094
55°	1062	1086	1125	1141	1131	953
65°	710	726	750	748	736	702
75°	354	357	369	344	322	376
85°	63	62	60	48	44	82
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2445.9	2445.9	2445.9	2445.9	2445.9
2.5°	2458.0	2445.9	2429.9	2443.2	2440.6
5°	2436.6	2420.5	2419.2	2435.2	2423.2
7.5°	2409.8	2407.1	2391.1	2408.5	2401.8
10°	2375.0	2372.4	2367.0	2379.1	2369.7
12.5°	2333.6	2330.9	2333.6	2340.3	2333.6
15°	2289.5	2293.5	2286.8	2301.5	2288.1
17.5°	2230.6	2234.6	2248.0	2253.3	2252.0
20°	2182.5	2185.1	2201.2	2222.6	2199.9
22.5°	2119.6	2126.3	2134.3	2173.1	2167.8
25°	2055.4	2064.8	2095.5	2125.0	2102.2
27.5°	1988.6	1997.9	2035.4	2056.8	2054.1
30°	1916.3	1925.7	1972.5	2001.9	1988.6
32.5°	1841.5	1857.5	1908.3	1933.7	1908.3
35°	1767.9	1775.9	1825.4	1845.5	1833.4
37.5°	1670.3	1701.0	1750.5	1763.9	1742.5
40°	1596.7	1598.1	1668.9	1668.9	1667.6
42.5°	1501.8	1523.2	1570.0	1595.4	1582.0
45°	1420.2	1426.9	1487.1	1505.8	1501.8
47.5°	1330.6	1357.4	1401.5	1422.9	1412.2
50°	1242.3	1261.1	1306.5	1334.6	1323.9
52.5°	1160.8	1175.5	1222.3	1238.3	1227.6
55°	1061.8	1085.9	1124.7	1140.7	1131.4
57.5°	976.2	993.6	1041.8	1047.1	1041.8
60°	886.6	906.7	945.5	949.5	938.8
62.5°	801.0	814.4	849.2	850.5	838.5
65°	710.1	726.2	750.2	747.5	735.5
67.5°	620.5	631.2	653.9	644.6	631.2
70°	529.6	538.9	557.7	544.3	532.2
72.5°	441.3	448.0	464.0	444.0	429.3
75°	354.4	357.1	369.1	343.7	322.3
77.5°	268.8	271.5	278.2	252.7	228.7
80°	191.2	191.2	193.9	167.2	151.1
82.5°	120.4	120.4	119.0	99.0	89.6
85°	62.9	61.5	60.2	48.1	44.1
87.5°	22.7	22.7	18.7	17.4	18.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)