

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: P487193

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-2LO-35-120-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: P487193
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-LD4-2LO-35-120-EDD
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

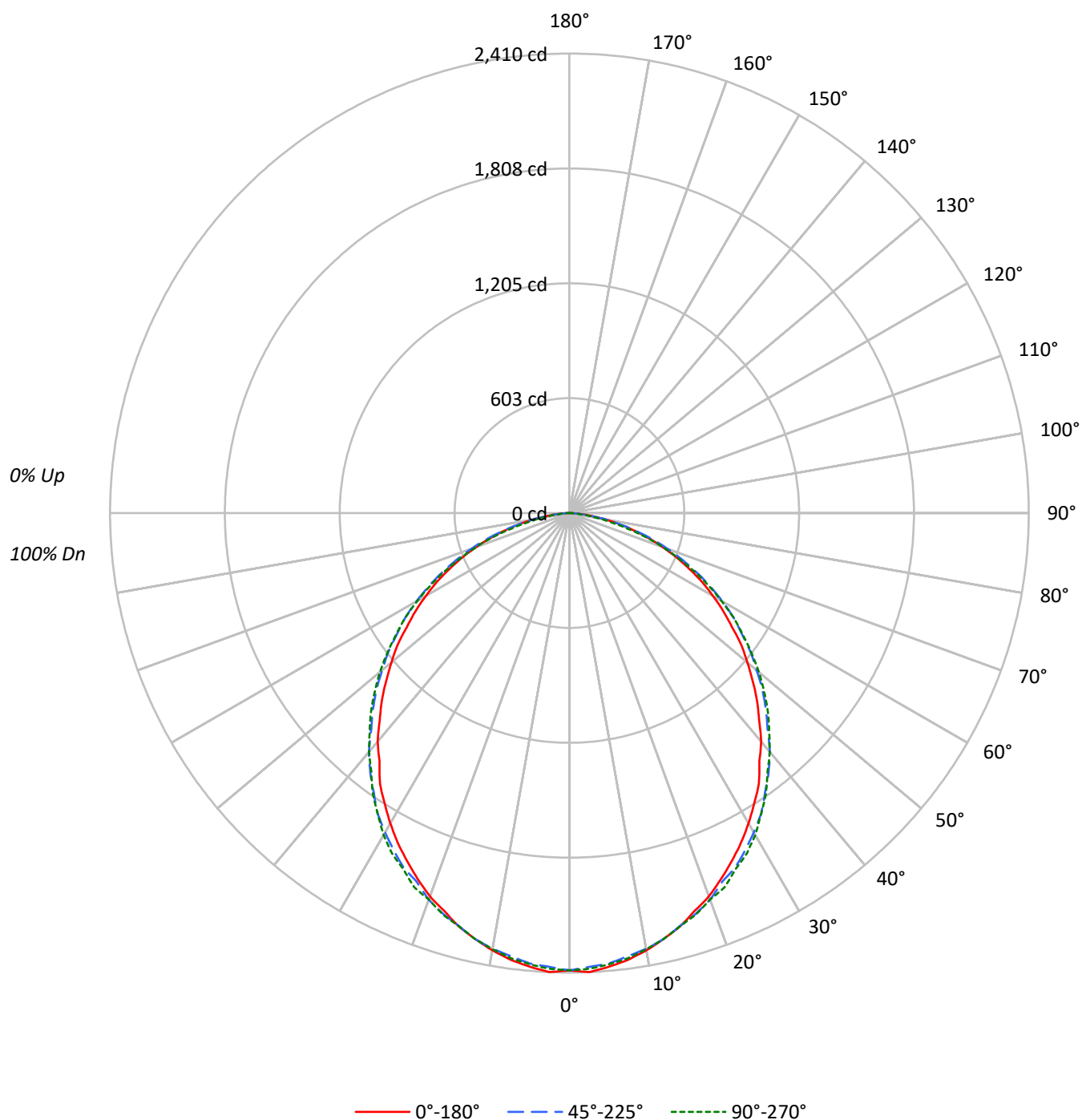
Lumens per Lamp: N/A
Luminaire Lumens: 6159.3 lumens
Efficiency: N/A
Efficacy: 131.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 46.8
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°	3226	3226	3226
5°	3226	3203	3209
10°	3181	3171	3174
15°	3127	3123	3125
20°	3064	3090	3088
25°	2992	3050	3060
30°	2919	3004	3029
35°	2847	2939	2952
40°	2749	2874	2872
45°	2649	2774	2802
50°	2550	2681	2717
55°	2442	2586	2602
60°	2339	2494	2477
65°	2216	2342	2296
70°	2043	2151	2053
75°	1806	1881	1643
80°	1453	1473	1148
85°	951	911	668



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.4	3.7
10°-20°	633.8	10.3
20°-30°	943.6	15.3
30°-40°	1110.6	18.0
40°-50°	1113.6	18.1
50°-60°	976.5	15.9
60°-70°	714.0	11.6
70°-80°	368.0	6.0
80°-90°	73.8	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°	1802.7	29.3
0°-40°	2913.4	47.3
0°-60°	5003.4	81.2
0°-90°	6159.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6159.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2398	2398	2398	2398	2398	
5°	2389	2373	2372	2388	2376	226
15°	2245	2248	2242	2256	2243	632
25°	2015	2024	2054	2083	2061	928
35°	1733	1741	1790	1809	1798	1079
45°	1392	1399	1458	1476	1472	1073
55°	1041	1065	1103	1118	1109	934
65°	696	712	736	733	721	689
75°	347	350	362	337	316	368
85°	62	60	59	47	43	80
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2398.0	2398.0	2398.0	2398.0	2398.0
2.5°	2409.8	2398.0	2382.2	2395.3	2392.7
5°	2388.8	2373.0	2371.7	2387.5	2375.7
7.5°	2362.6	2359.9	2344.2	2361.2	2354.7
10°	2328.5	2325.8	2320.6	2332.4	2323.2
12.5°	2287.8	2285.2	2287.8	2294.4	2287.8
15°	2244.6	2248.5	2241.9	2256.4	2243.2
17.5°	2186.9	2190.8	2203.9	2209.2	2207.8
20°	2139.7	2142.3	2158.0	2179.0	2156.7
22.5°	2078.1	2084.6	2092.5	2130.5	2125.3
25°	2015.1	2024.3	2054.5	2083.3	2061.0
27.5°	1949.6	1958.7	1995.5	2016.4	2013.8
30°	1878.8	1887.9	1933.8	1962.7	1949.6
32.5°	1805.3	1821.1	1870.9	1895.8	1870.9
35°	1733.2	1741.1	1789.6	1809.3	1797.5
37.5°	1637.5	1667.7	1716.2	1729.3	1708.3
40°	1565.4	1566.7	1636.2	1636.2	1634.9
42.5°	1472.3	1493.3	1539.2	1564.1	1551.0
45°	1392.4	1398.9	1457.9	1476.3	1472.3
47.5°	1304.5	1330.7	1374.0	1395.0	1384.5
50°	1218.0	1236.3	1280.9	1308.5	1298.0
52.5°	1138.0	1152.4	1198.3	1214.1	1203.6
55°	1041.0	1064.6	1102.6	1118.3	1109.2
57.5°	957.1	974.1	1021.3	1026.6	1021.3
60°	869.2	888.9	926.9	930.9	920.4
62.5°	785.3	798.4	832.5	833.8	822.0
65°	696.2	711.9	735.5	732.9	721.1
67.5°	608.3	618.8	641.1	631.9	618.8
70°	519.2	528.4	546.7	533.6	521.8
72.5°	432.7	439.2	454.9	435.3	420.9
75°	347.4	350.1	361.9	336.9	316.0
77.5°	263.5	266.1	272.7	247.8	224.2
80°	187.5	187.5	190.1	163.9	148.2
82.5°	118.0	118.0	116.7	97.0	87.8
85°	61.6	60.3	59.0	47.2	43.3
87.5°	22.3	22.3	18.4	17.0	18.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)