

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: P485145

Luminaire Tested: **ORLG-12-4-INS-A125-LD4-2LO-50-120-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: P485145
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-12-4-INS-A125-LD4-2LO-50-120-EDD
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

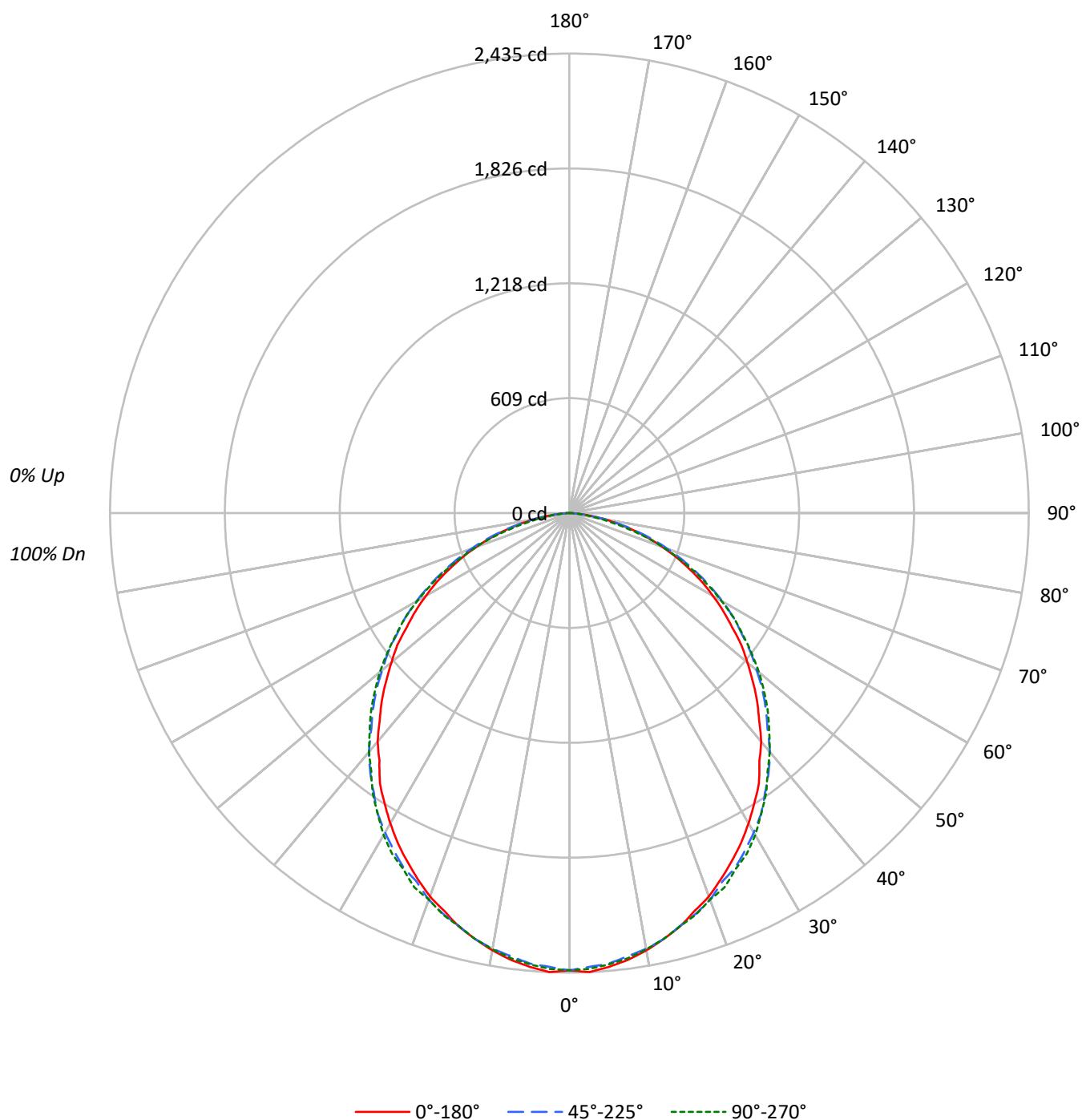
Lumens per Lamp: N/A
Luminaire Lumens: 6223.5 lumens
Efficiency: N/A
Efficacy: 133.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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					10
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°	6520	6520	6520
5°	6520	6474	6484
10°	6429	6407	6414
15°	6318	6311	6315
20°	6191	6244	6241
25°	6046	6164	6183
30°	5899	6072	6121
35°	5753	5940	5966
40°	5556	5808	5803
45°	5354	5606	5662
50°	5152	5418	5490
55°	4935	5227	5258
60°	4727	5041	5005
65°	4479	4732	4639
70°	4127	4346	4148
75°	3650	3801	3320
80°	2935	2977	2320
85°	1924	1840	1349



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.7	3.7
10°-20°	640.4	10.3
20°-30°	953.4	15.3
30°-40°	1122.2	18.0
40°-50°	1125.2	18.1
50°-60°	986.7	15.9
60°-70°	721.5	11.6
70°-80°	371.8	6.0
80°-90°	74.6	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°	1821.5	29.3
0°-40°	2943.8	47.3
0°-60°	5055.6	81.2
0°-90°	6223.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6223.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2423	2423	2423	2423	2423	
5°	2414	2398	2396	2412	2400	228
15°	2268	2272	2265	2280	2267	638
25°	2036	2045	2076	2105	2082	938
35°	1751	1759	1808	1828	1816	1091
45°	1407	1414	1473	1492	1488	1084
55°	1052	1076	1114	1130	1121	944
65°	703	719	743	740	729	696
75°	351	354	366	340	319	372
85°	62	61	60	48	44	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2422.9	2422.9	2422.9	2422.9	2422.9
2.5°	2434.9	2422.9	2407.1	2420.3	2417.6
5°	2413.7	2397.8	2396.5	2412.4	2400.4
7.5°	2387.2	2384.5	2368.6	2385.9	2379.2
10°	2352.7	2350.1	2344.8	2356.7	2347.4
12.5°	2311.7	2309.0	2311.7	2318.3	2311.7
15°	2268.0	2271.9	2265.3	2279.9	2266.6
17.5°	2209.7	2213.6	2226.9	2232.2	2230.9
20°	2162.0	2164.6	2180.5	2201.7	2179.2
22.5°	2099.7	2106.3	2114.3	2152.7	2147.4
25°	2036.1	2045.4	2075.9	2105.0	2082.5
27.5°	1969.9	1979.2	2016.3	2037.4	2034.8
30°	1898.4	1907.6	1954.0	1983.1	1969.9
32.5°	1824.2	1840.1	1890.4	1915.6	1890.4
35°	1751.3	1759.3	1808.3	1828.1	1816.2
37.5°	1654.6	1685.1	1734.1	1747.3	1726.1
40°	1581.7	1583.1	1653.3	1653.3	1651.9
42.5°	1487.7	1508.9	1555.2	1580.4	1567.2
45°	1406.9	1413.5	1473.1	1491.7	1487.7
47.5°	1318.1	1344.6	1388.3	1409.5	1398.9
50°	1230.7	1249.2	1294.3	1322.1	1311.5
52.5°	1149.9	1164.4	1210.8	1226.7	1216.1
55°	1051.8	1075.7	1114.1	1130.0	1120.7
57.5°	967.1	984.3	1032.0	1037.3	1032.0
60°	878.3	898.2	936.6	940.6	930.0
62.5°	793.5	806.8	841.2	842.5	830.6
65°	703.4	719.3	743.2	740.5	728.6
67.5°	614.7	625.3	647.8	638.5	625.3
70°	524.6	533.9	552.4	539.2	527.2
72.5°	437.2	443.8	459.7	439.8	425.2
75°	351.1	353.7	365.6	340.5	319.3
77.5°	266.3	268.9	275.5	250.4	226.5
80°	189.4	189.4	192.1	165.6	149.7
82.5°	119.2	119.2	117.9	98.0	88.8
85°	62.3	60.9	59.6	47.7	43.7
87.5°	22.5	22.5	18.5	17.2	18.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)