

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: P485143

Luminaire Tested: **ORLG-12-4-INS-A125-LD4-2LO-40-120-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: P485143
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-40-120-EDD
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

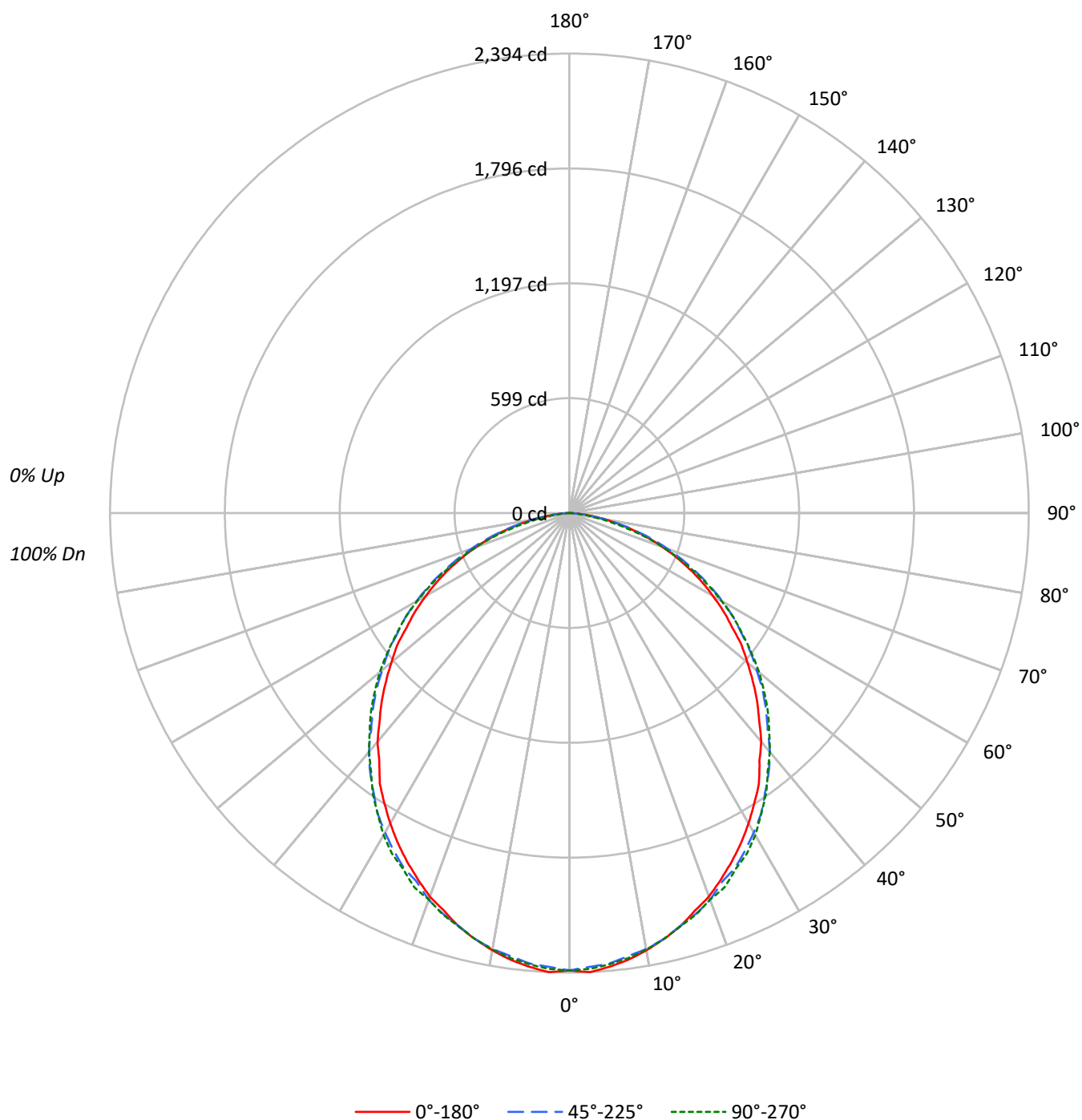
Lumens per Lamp: N/A
Luminaire Lumens: 6119.7 lumens
Efficiency: N/A
Efficacy: 130.8 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P485143

CATALOG NUMBER: ORLG-12-4-INS-A125-LD4-2LO-40-120-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					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°	6411	6411	6411
5°	6411	6366	6376
10°	6322	6300	6307
15°	6213	6206	6209
20°	6088	6140	6136
25°	5945	6061	6080
30°	5800	5970	6019
35°	5657	5841	5867
40°	5464	5711	5706
45°	5265	5512	5567
50°	5066	5328	5399
55°	4852	5140	5170
60°	4648	4957	4922
65°	4404	4653	4562
70°	4058	4274	4080
75°	3589	3738	3264
80°	2887	2927	2281
85°	1890	1809	1328



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.9	3.7
10°-20°	629.7	10.3
20°-30°	937.5	15.3
30°-40°	1103.5	18.0
40°-50°	1106.4	18.1
50°-60°	970.2	15.9
60°-70°	709.5	11.6
70°-80°	365.6	6.0
80°-90°	73.3	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°	1791.2	29.3
0°-40°	2894.7	47.3
0°-60°	4971.3	81.2
0°-90°	6119.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6119.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2382	2382	2382	2382	2382	
5°	2373	2358	2356	2372	2360	225
15°	2230	2234	2228	2242	2229	628
25°	2002	2011	2041	2070	2048	922
35°	1722	1730	1778	1798	1786	1072
45°	1383	1390	1448	1467	1463	1066
55°	1034	1058	1096	1111	1102	928
65°	692	707	731	728	716	684
75°	345	348	360	335	314	366
85°	61	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°	2382.5	2382.5	2382.5	2382.5	2382.5
2.5°	2394.3	2382.5	2366.9	2379.9	2377.3
5°	2373.4	2357.8	2356.5	2372.1	2360.4
7.5°	2347.4	2344.8	2329.1	2346.1	2339.5
10°	2313.5	2310.9	2305.7	2317.4	2308.3
12.5°	2273.1	2270.5	2273.1	2279.6	2273.1
15°	2230.1	2234.0	2227.5	2241.9	2228.8
17.5°	2172.8	2176.7	2189.7	2195.0	2193.7
20°	2125.9	2128.5	2144.2	2165.0	2142.8
22.5°	2064.7	2071.2	2079.0	2116.8	2111.6
25°	2002.2	2011.3	2041.2	2069.9	2047.8
27.5°	1937.0	1946.2	1982.6	2003.5	2000.9
30°	1866.7	1875.8	1921.4	1950.1	1937.0
32.5°	1793.7	1809.4	1858.9	1883.6	1858.9
35°	1722.1	1729.9	1778.1	1797.6	1785.9
37.5°	1627.0	1657.0	1705.2	1718.2	1697.3
40°	1555.4	1556.7	1625.7	1625.7	1624.4
42.5°	1462.9	1483.7	1529.3	1554.1	1541.0
45°	1383.4	1389.9	1448.5	1466.8	1462.9
47.5°	1296.1	1322.2	1365.2	1386.0	1375.6
50°	1210.2	1228.4	1272.7	1300.0	1289.6
52.5°	1130.7	1145.0	1190.6	1206.2	1195.8
55°	1034.3	1057.7	1095.5	1111.2	1102.0
57.5°	950.9	967.9	1014.8	1020.0	1014.8
60°	863.7	883.2	921.0	924.9	914.5
62.5°	780.3	793.3	827.2	828.5	816.8
65°	691.7	707.3	730.8	728.2	716.5
67.5°	604.4	614.8	637.0	627.9	614.8
70°	515.8	525.0	543.2	530.2	518.5
72.5°	429.9	436.4	452.0	432.5	418.1
75°	345.2	347.8	359.5	334.8	313.9
77.5°	261.8	264.4	271.0	246.2	222.8
80°	186.3	186.3	188.9	162.8	147.2
82.5°	117.2	117.2	115.9	96.4	87.3
85°	61.2	59.9	58.6	46.9	43.0
87.5°	22.1	22.1	18.2	16.9	18.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)