

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: P485144

Luminaire Tested: **ORLG-12-4-INS-A125-LD4-2LO-50-120-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: P485144
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-90
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

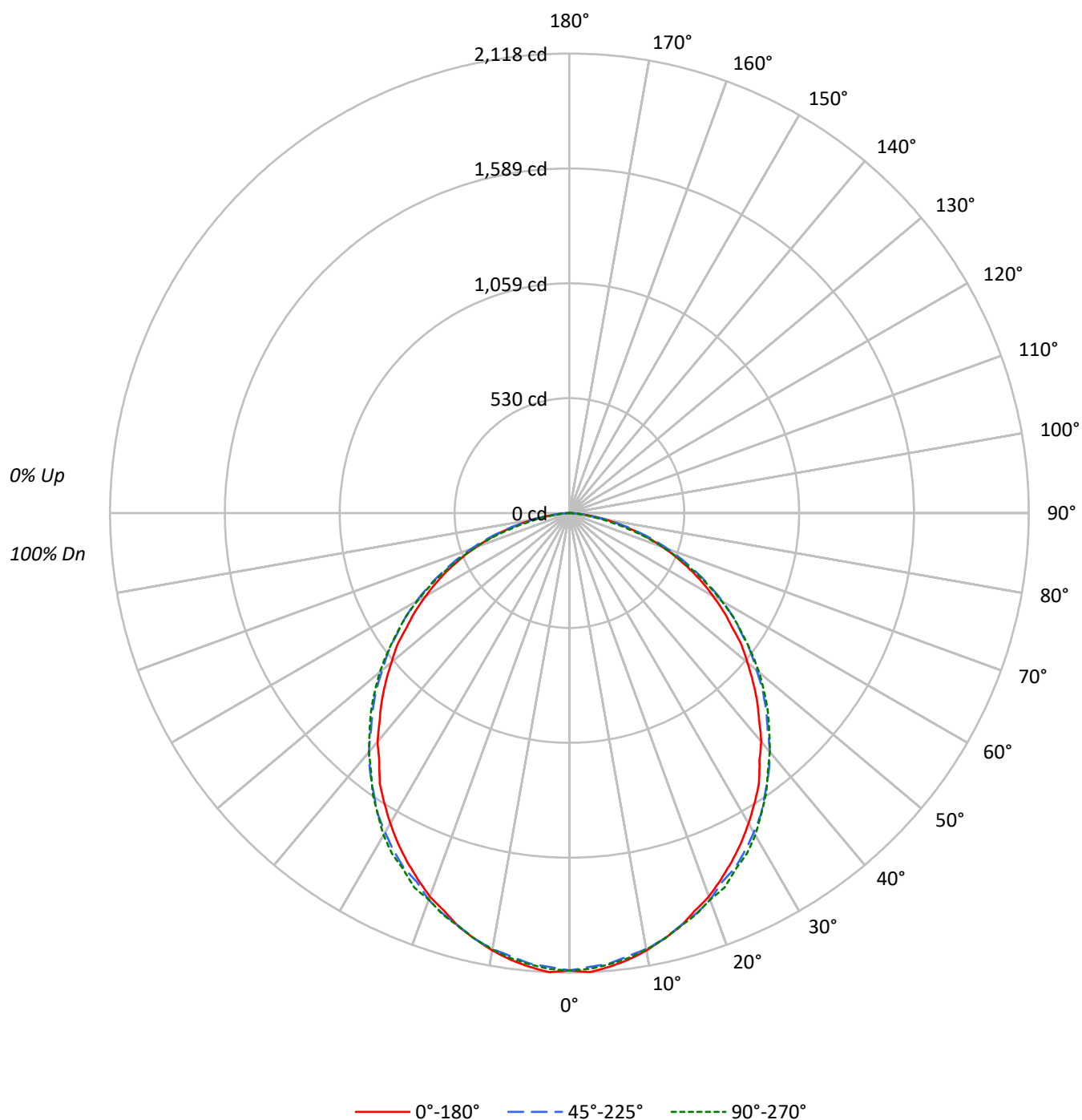
Lumens per Lamp: N/A
Luminaire Lumens: 5414.4 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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					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°	5672	5672	5672
5°	5672	5632	5641
10°	5593	5574	5581
15°	5497	5490	5494
20°	5386	5432	5429
25°	5260	5362	5380
30°	5132	5282	5325
35°	5005	5168	5191
40°	4834	5052	5049
45°	4658	4877	4926
50°	4482	4714	4777
55°	4293	4548	4574
60°	4112	4385	4355
65°	3897	4117	4036
70°	3591	3781	3609
75°	3175	3307	2888
80°	2554	2590	2018
85°	1673	1602	1173



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.1	3.7
10°-20°	557.1	10.3
20°-30°	829.5	15.3
30°-40°	976.3	18.0
40°-50°	978.9	18.1
50°-60°	858.4	15.9
60°-70°	627.7	11.6
70°-80°	323.5	6.0
80°-90°	64.9	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°	1584.7	29.3
0°-40°	2561.0	47.3
0°-60°	4398.3	81.2
0°-90°	5414.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5414.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2108	2108	2108	2108	2108	
5°	2100	2086	2085	2099	2088	199
15°	1973	1977	1971	1984	1972	555
25°	1771	1780	1806	1831	1812	816
35°	1524	1530	1573	1590	1580	949
45°	1224	1230	1282	1298	1294	943
55°	915	936	969	983	975	821
65°	612	626	647	644	634	605
75°	305	308	318	296	278	324
85°	54	53	52	42	38	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2107.9	2107.9	2107.9	2107.9	2107.9
2.5°	2118.3	2107.9	2094.1	2105.6	2103.3
5°	2099.9	2086.0	2084.9	2098.7	2088.4
7.5°	2076.8	2074.5	2060.7	2075.7	2069.9
10°	2046.9	2044.6	2039.9	2050.3	2042.3
12.5°	2011.1	2008.8	2011.1	2016.9	2011.1
15°	1973.1	1976.6	1970.8	1983.5	1972.0
17.5°	1922.4	1925.9	1937.4	1942.0	1940.8
20°	1880.9	1883.2	1897.0	1915.5	1895.9
22.5°	1826.7	1832.5	1839.4	1872.8	1868.2
25°	1771.4	1779.5	1806.0	1831.3	1811.8
27.5°	1713.8	1721.9	1754.1	1772.6	1770.3
30°	1651.6	1659.6	1700.0	1725.3	1713.8
32.5°	1587.0	1600.8	1644.6	1666.5	1644.6
35°	1523.6	1530.5	1573.2	1590.5	1580.1
37.5°	1439.5	1466.0	1508.6	1520.2	1501.7
40°	1376.1	1377.3	1438.3	1438.3	1437.2
42.5°	1294.3	1312.7	1353.1	1374.9	1363.4
45°	1224.0	1229.7	1281.6	1297.7	1294.3
47.5°	1146.8	1169.8	1207.8	1226.3	1217.1
50°	1070.7	1086.8	1126.0	1150.2	1141.0
52.5°	1000.4	1013.1	1053.4	1067.2	1058.0
55°	915.1	935.8	969.3	983.1	975.0
57.5°	841.3	856.3	897.8	902.4	897.8
60°	764.1	781.4	814.8	818.3	809.1
62.5°	690.4	701.9	731.8	733.0	722.6
65°	612.0	625.8	646.6	644.3	633.9
67.5°	534.8	544.0	563.6	555.5	544.0
70°	456.4	464.5	480.6	469.1	458.7
72.5°	380.3	386.1	399.9	382.6	370.0
75°	305.4	307.7	318.1	296.2	277.8
77.5°	231.7	234.0	239.7	217.8	197.1
80°	164.8	164.8	167.1	144.1	130.2
82.5°	103.7	103.7	102.6	85.3	77.2
85°	54.2	53.0	51.9	41.5	38.0
87.5°	19.6	19.6	16.1	15.0	16.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)