

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: P485133

Luminaire Tested: **ORLG-12-4-INS-A125-LD4-2HI-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: P485133
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-LD4-2HI-50-120-EDD
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

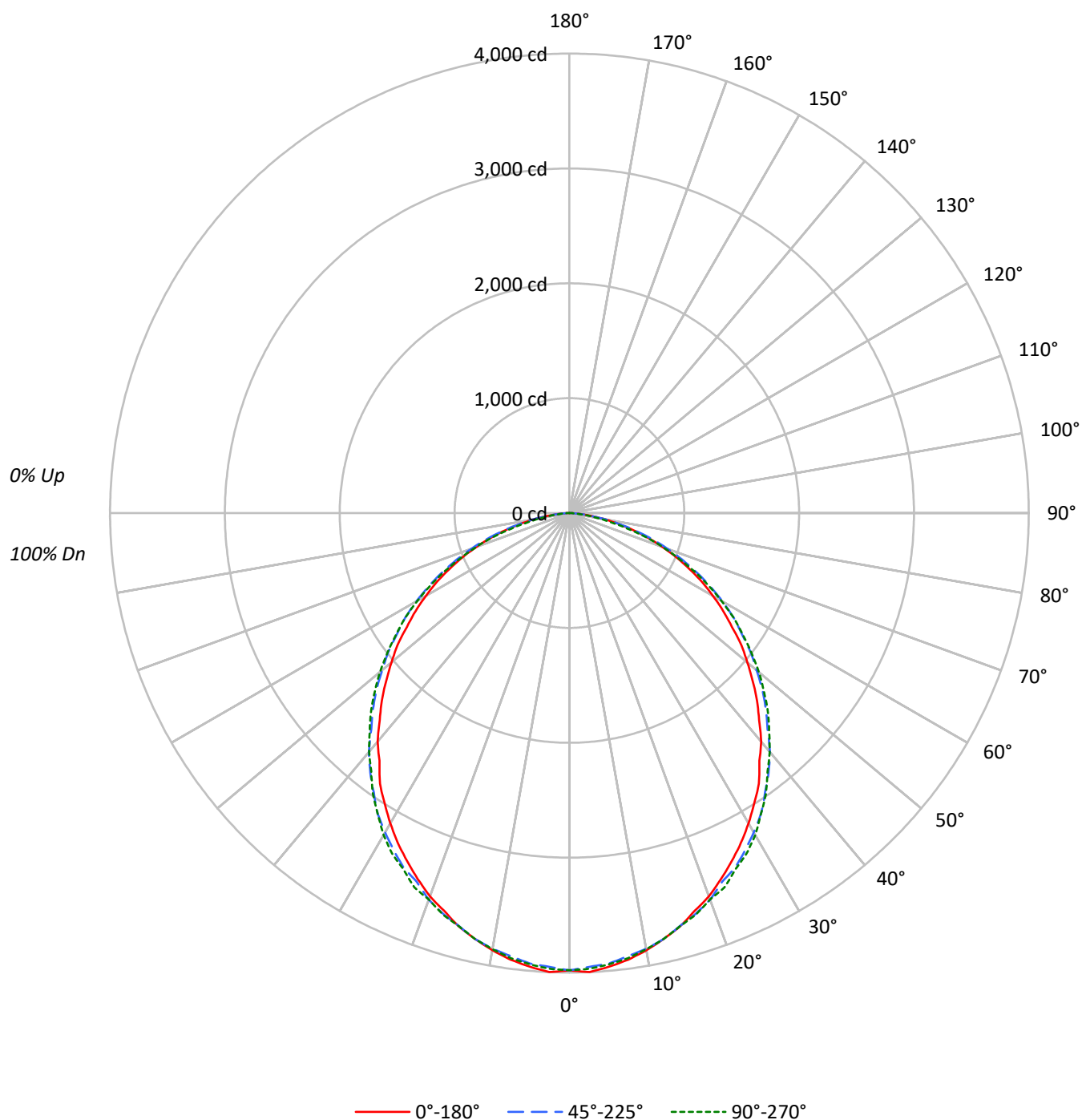
Lumens per Lamp: N/A
Luminaire Lumens: 10222.6 lumens
Efficiency: N/A
Efficacy: 116.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 88
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°	10710	10710	10710
5°	10710	10633	10651
10°	10560	10524	10536
15°	10378	10366	10372
20°	10169	10257	10251
25°	9930	10124	10157
30°	9689	9973	10054
35°	9450	9757	9800
40°	9127	9539	9532
45°	8794	9208	9299
50°	8463	8900	9018
55°	8106	8586	8637
60°	7765	8280	8221
65°	7358	7773	7621
70°	6780	7139	6814
75°	5995	6245	5452
80°	4823	4889	3811
85°	3159	3023	2217



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	374.1	3.7
10°-20°	1051.9	10.3
20°-30°	1566.0	15.3
30°-40°	1843.3	18.0
40°-50°	1848.2	18.1
50°-60°	1620.7	15.9
60°-70°	1185.1	11.6
70°-80°	610.8	6.0
80°-90°	122.5	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°	2992.0	29.3
0°-40°	4835.3	47.3
0°-60°	8304.2	81.2
0°-90°	10222.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10222.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3980	3980	3980	3980	3980	
5°	3965	3938	3936	3962	3943	375
15°	3725	3732	3721	3745	3723	1048
25°	3344	3360	3410	3458	3421	1541
35°	2877	2890	2970	3003	2983	1792
45°	2311	2322	2420	2450	2444	1781
55°	1728	1767	1830	1856	1841	1551
65°	1156	1182	1221	1216	1197	1143
75°	577	581	601	559	524	611
85°	102	100	98	78	72	133
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3979.9	3979.9	3979.9	3979.9	3979.9
2.5°	3999.5	3979.9	3953.8	3975.5	3971.2
5°	3964.7	3938.5	3936.4	3962.5	3942.9
7.5°	3921.1	3916.8	3890.7	3919.0	3908.1
10°	3864.6	3860.2	3851.5	3871.1	3855.9
12.5°	3797.1	3792.8	3797.1	3808.0	3797.1
15°	3725.3	3731.8	3720.9	3744.9	3723.1
17.5°	3629.6	3636.1	3657.8	3666.5	3664.4
20°	3551.2	3555.6	3581.7	3616.5	3579.5
22.5°	3448.9	3459.8	3472.9	3536.0	3527.3
25°	3344.5	3359.7	3409.8	3457.6	3420.7
27.5°	3235.7	3250.9	3311.9	3346.7	3342.3
30°	3118.2	3133.4	3209.6	3257.5	3235.7
32.5°	2996.3	3022.5	3105.1	3146.5	3105.1
35°	2876.7	2889.7	2970.2	3002.9	2983.3
37.5°	2717.8	2767.9	2848.4	2870.1	2835.3
40°	2598.1	2600.3	2715.6	2715.6	2713.5
42.5°	2443.6	2478.5	2554.6	2596.0	2574.2
45°	2310.9	2321.8	2419.7	2450.2	2443.6
47.5°	2165.1	2208.6	2280.4	2315.3	2297.8
50°	2021.5	2052.0	2125.9	2171.6	2154.2
52.5°	1888.8	1912.7	1988.9	2015.0	1997.6
55°	1727.7	1766.9	1830.0	1856.1	1840.9
57.5°	1588.5	1616.8	1695.1	1703.8	1695.1
60°	1442.7	1475.3	1538.4	1545.0	1527.5
62.5°	1303.4	1325.2	1381.8	1383.9	1364.3
65°	1155.5	1181.6	1220.7	1216.4	1196.8
67.5°	1009.7	1027.1	1064.1	1048.8	1027.1
70°	861.7	876.9	907.4	885.6	866.0
72.5°	718.1	729.0	755.1	722.4	698.5
75°	576.6	581.0	600.6	559.2	524.4
77.5°	437.4	441.7	452.6	411.3	372.1
80°	311.2	311.2	315.5	272.0	245.9
82.5°	195.8	195.8	193.7	161.0	145.8
85°	102.3	100.1	97.9	78.3	71.8
87.5°	37.0	37.0	30.5	28.3	30.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)