

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: P485160

Luminaire Tested: **ORLG-12-4-INS-A125-LD4-3HI-27-120-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: P485160
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-LD4-3HI-27-120-EDD-90
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

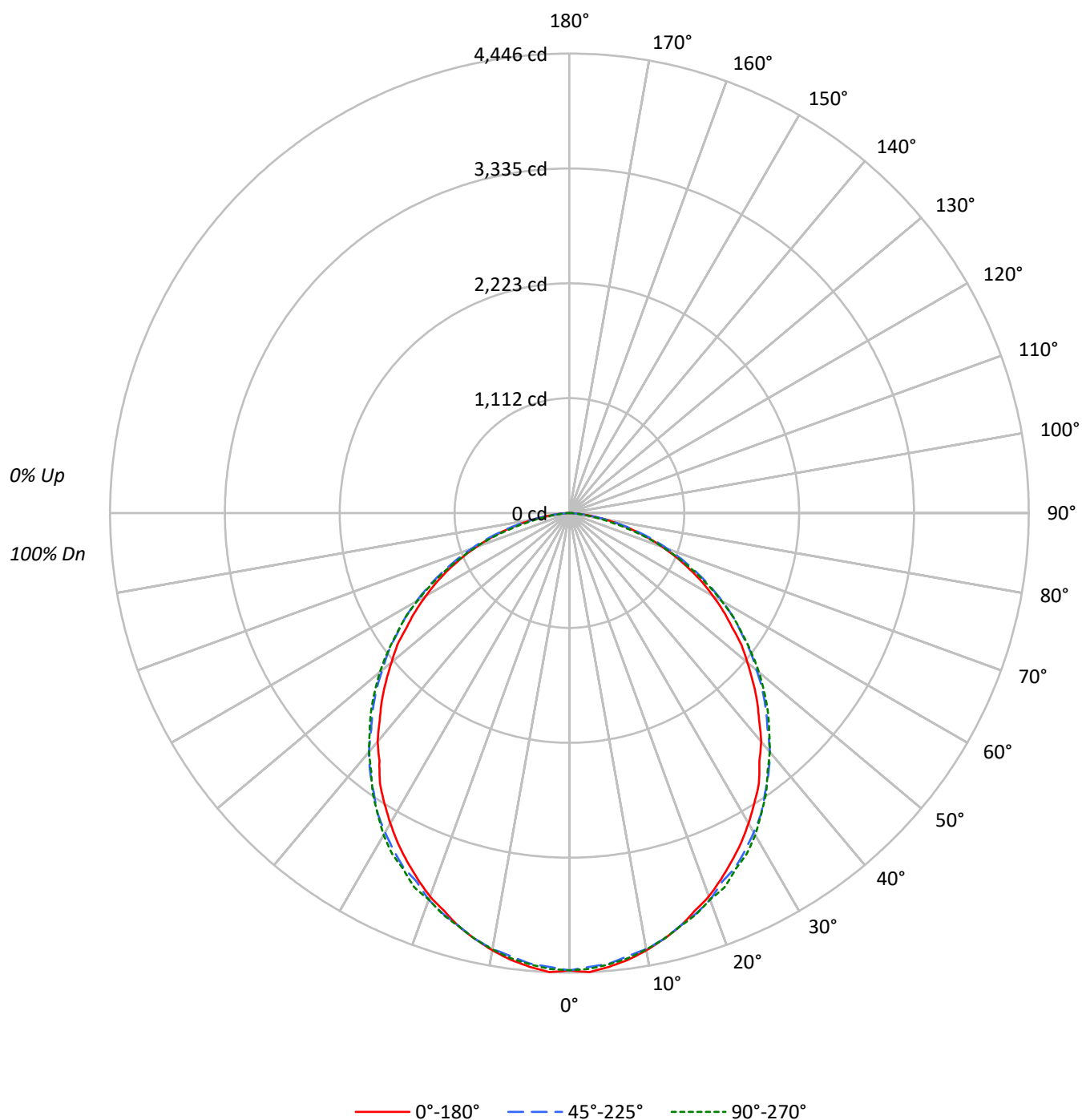
Lumens per Lamp: N/A
Luminaire Lumens: 11364.1 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 132
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°	11906	11906	11906
5°	11906	11820	11840
10°	11739	11699	11713
15°	11537	11524	11531
20°	11305	11402	11395
25°	11039	11255	11291
30°	10771	11087	11177
35°	10505	10847	10895
40°	10146	10605	10596
45°	9776	10237	10338
50°	9408	9894	10026
55°	9011	9545	9601
60°	8632	9204	9139
65°	8179	8641	8471
70°	7537	7936	7575
75°	6665	6941	6062
80°	5360	5436	4235
85°	3511	3362	2464



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	415.9	3.7
10°-20°	1169.3	10.3
20°-30°	1740.9	15.3
30°-40°	2049.2	18.0
40°-50°	2054.6	18.1
50°-60°	1801.7	15.9
60°-70°	1317.4	11.6
70°-80°	679.0	6.0
80°-90°	136.2	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°	3326.1	29.3
0°-40°	5375.3	47.3
0°-60°	9231.5	81.2
0°-90°	11364.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11364.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4424	4424	4424	4424	4424	
5°	4407	4378	4376	4405	4383	417
15°	4141	4148	4136	4163	4139	1165
25°	3718	3735	3790	3844	3803	1713
35°	3198	3212	3302	3338	3316	1992
45°	2569	2581	2690	2724	2716	1980
55°	1921	1964	2034	2063	2046	1724
65°	1284	1314	1357	1352	1330	1271
75°	641	646	668	622	583	679
85°	114	111	109	87	80	148
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4424.3	4424.3	4424.3	4424.3	4424.3
2.5°	4446.1	4424.3	4395.3	4419.5	4414.6
5°	4407.4	4378.3	4375.9	4404.9	4383.2
7.5°	4359.0	4354.1	4325.1	4356.6	4344.5
10°	4296.1	4291.3	4281.6	4303.4	4286.4
12.5°	4221.1	4216.3	4221.1	4233.2	4221.1
15°	4141.3	4148.5	4136.4	4163.0	4138.9
17.5°	4034.8	4042.1	4066.3	4076.0	4073.5
20°	3947.8	3952.6	3981.6	4020.3	3979.2
22.5°	3834.1	3846.2	3860.7	3930.8	3921.2
25°	3718.0	3734.9	3790.5	3843.7	3802.6
27.5°	3597.0	3613.9	3681.7	3720.4	3715.5
30°	3466.4	3483.3	3568.0	3621.2	3597.0
32.5°	3330.9	3360.0	3451.9	3497.8	3451.9
35°	3197.9	3212.4	3301.9	3338.2	3316.4
37.5°	3021.3	3076.9	3166.4	3190.6	3151.9
40°	2888.3	2890.7	3018.9	3018.9	3016.5
42.5°	2716.5	2755.2	2839.9	2885.8	2861.6
45°	2568.9	2581.0	2689.9	2723.8	2716.5
47.5°	2406.9	2455.3	2535.1	2573.8	2554.4
50°	2247.2	2281.1	2363.3	2414.1	2394.8
52.5°	2099.7	2126.3	2210.9	2240.0	2220.6
55°	1920.7	1964.2	2034.4	2063.4	2046.4
57.5°	1765.8	1797.3	1884.4	1894.1	1884.4
60°	1603.8	1640.1	1710.2	1717.5	1698.1
62.5°	1449.0	1473.2	1536.0	1538.5	1516.7
65°	1284.5	1313.5	1357.0	1352.2	1330.4
67.5°	1122.4	1141.8	1182.9	1165.9	1141.8
70°	957.9	974.8	1008.7	984.5	962.8
72.5°	798.3	810.4	839.4	803.1	776.5
75°	641.0	645.9	667.6	621.7	583.0
77.5°	486.2	491.1	503.1	457.2	413.6
80°	345.9	345.9	350.8	302.4	273.3
82.5°	217.7	217.7	215.3	179.0	162.1
85°	113.7	111.3	108.9	87.1	79.8
87.5°	41.1	41.1	33.9	31.4	33.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)