

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: P485189

Luminaire Tested: **ORLG-12-4-INS-A125-LD4-3STD-35-120-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: P485189
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-LD4-3STD-35-120-EDD
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

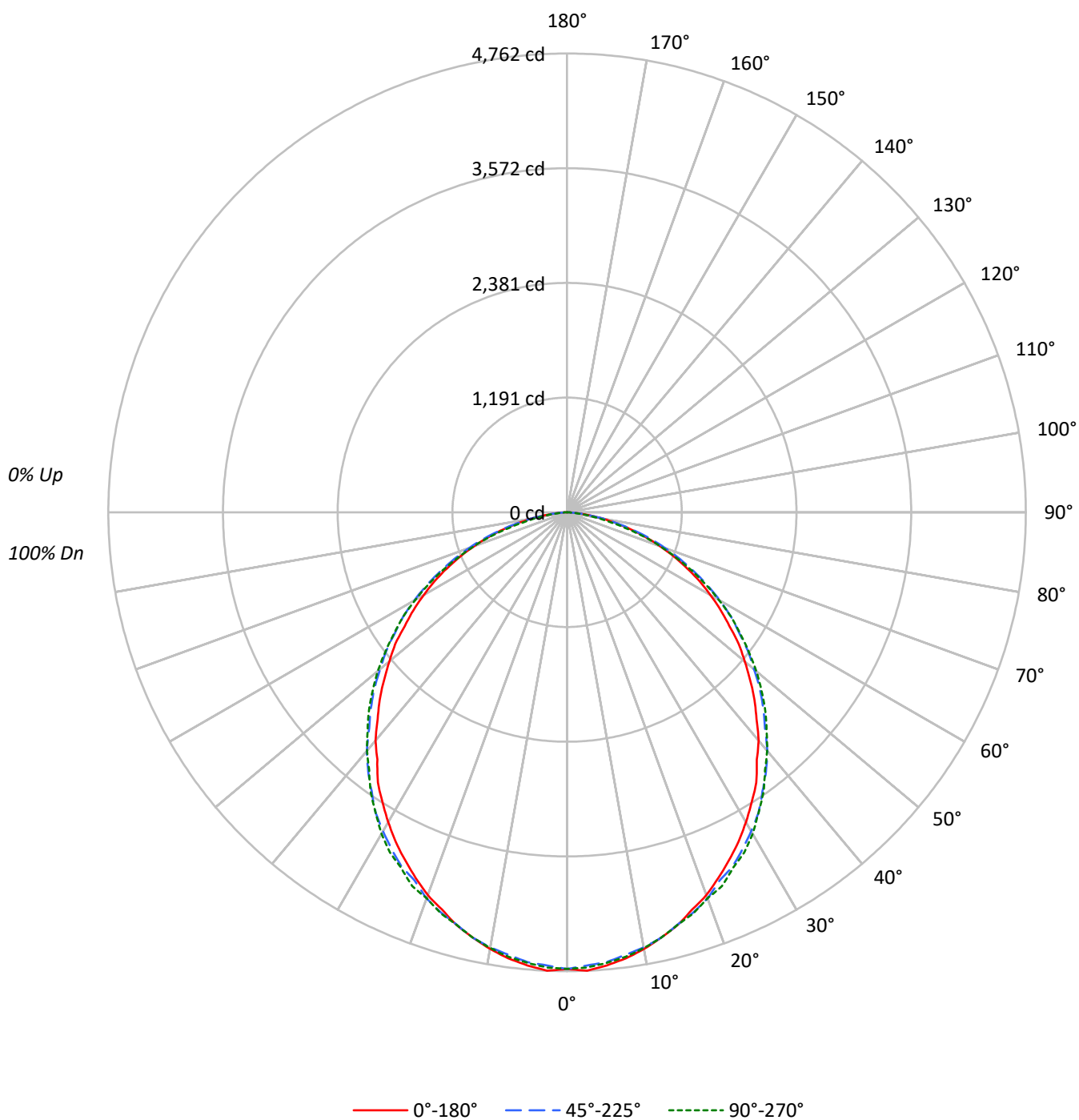
Lumens per Lamp: N/A
Luminaire Lumens: 12171.1 lumens
Efficiency: N/A
Efficacy: 121.8 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 99.9
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°	12751	12751	12751
5°	12751	12660	12681
10°	12573	12530	12544
15°	12357	12342	12349
20°	12108	12212	12204
25°	11823	12054	12093
30°	11536	11874	11970
35°	11251	11617	11668
40°	10867	11358	11349
45°	10471	10964	11072
50°	10076	10597	10737
55°	9651	10222	10283
60°	9245	9858	9788
65°	8760	9254	9073
70°	8072	8500	8113
75°	7138	7434	6492
80°	5742	5822	4537
85°	3761	3600	2640



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	445.4	3.7
10°-20°	1252.4	10.3
20°-30°	1864.5	15.3
30°-40°	2194.7	18.0
40°-50°	2200.5	18.1
50°-60°	1929.6	15.9
60°-70°	1411.0	11.6
70°-80°	727.2	6.0
80°-90°	145.9	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°	3562.3	29.3
0°-40°	5757.0	47.3
0°-60°	9887.1	81.2
0°-90°	12171.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12171.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4738	4738	4738	4738	4738	
5°	4720	4689	4687	4718	4694	447
15°	4435	4443	4430	4459	4433	1248
25°	3982	4000	4060	4117	4073	1834
35°	3425	3440	3536	3575	3552	2133
45°	2751	2764	2881	2917	2909	2120
55°	2057	2104	2179	2210	2192	1846
65°	1376	1407	1453	1448	1425	1361
75°	686	692	715	666	624	727
85°	122	119	117	93	86	159
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4738.5	4738.5	4738.5	4738.5	4738.5
2.5°	4761.8	4738.5	4707.4	4733.3	4728.1
5°	4720.3	4689.3	4686.7	4717.8	4694.4
7.5°	4668.5	4663.4	4632.3	4665.9	4653.0
10°	4601.2	4596.0	4585.6	4608.9	4590.8
12.5°	4520.9	4515.7	4520.9	4533.8	4520.9
15°	4435.4	4443.1	4430.2	4458.7	4432.8
17.5°	4321.4	4329.1	4355.1	4365.4	4362.8
20°	4228.1	4233.3	4264.4	4305.8	4261.8
22.5°	4106.3	4119.3	4134.8	4210.0	4199.6
25°	3982.0	4000.1	4059.7	4116.7	4072.7
27.5°	3852.4	3870.6	3943.1	3984.6	3979.4
30°	3712.5	3730.7	3821.4	3878.4	3852.4
32.5°	3567.5	3598.6	3697.0	3746.2	3697.0
35°	3425.0	3440.5	3536.4	3575.2	3551.9
37.5°	3235.8	3295.4	3391.3	3417.2	3375.7
40°	3093.4	3095.9	3233.3	3233.3	3230.7
42.5°	2909.4	2950.9	3041.5	3090.8	3064.9
45°	2751.4	2764.3	2880.9	2917.2	2909.4
47.5°	2577.8	2629.6	2715.1	2756.6	2735.8
50°	2406.8	2443.1	2531.2	2585.6	2564.8
52.5°	2248.8	2277.3	2367.9	2399.0	2378.3
55°	2057.1	2103.7	2178.8	2209.9	2191.8
57.5°	1891.2	1924.9	2018.2	2028.6	2018.2
60°	1717.7	1756.5	1831.7	1839.4	1818.7
62.5°	1551.9	1577.8	1645.1	1647.7	1624.4
65°	1375.7	1406.8	1453.4	1448.2	1424.9
67.5°	1202.1	1222.8	1266.9	1248.7	1222.8
70°	1025.9	1044.1	1080.3	1054.4	1031.1
72.5°	854.9	867.9	899.0	860.1	831.6
75°	686.5	691.7	715.0	665.8	624.4
77.5°	520.7	525.9	538.9	489.7	443.0
80°	370.5	370.5	375.7	323.8	292.8
82.5°	233.2	233.2	230.6	191.7	173.6
85°	121.8	119.2	116.6	93.3	85.5
87.5°	44.0	44.0	36.3	33.7	36.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)