

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: P487271

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-4STD-20-120-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: P487271
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-24-4-INS-A125-LD4-4STD-20-120-EDD
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

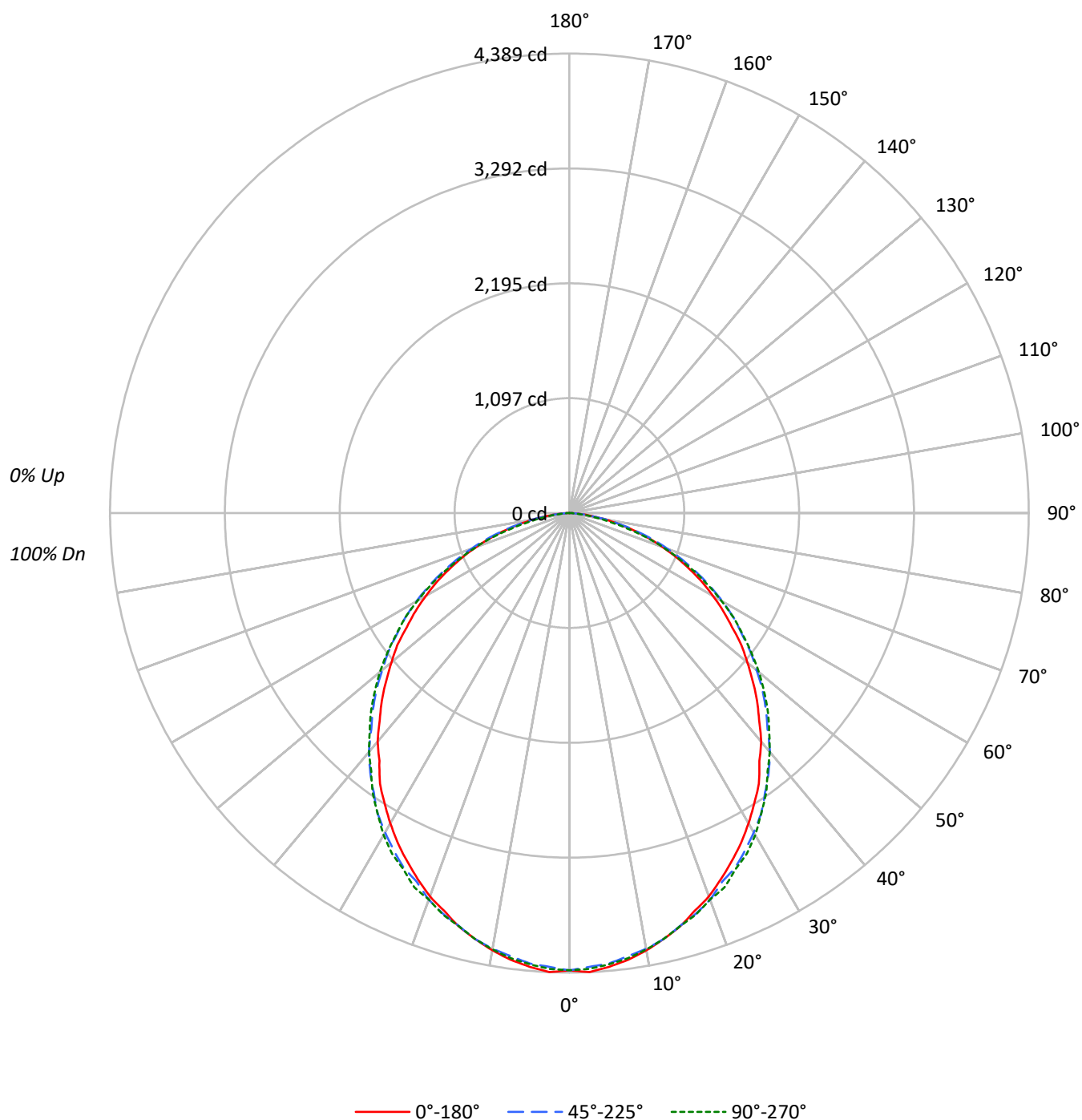
Lumens per Lamp: N/A
Luminaire Lumens: 11217.7 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 133.2
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: P487271

CATALOG NUMBER: ORLG-24-4-INS-A125-LD4-4STD-20-120-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°	5876	5876	5876
5°	5876	5834	5844
10°	5794	5774	5781
15°	5694	5688	5691
20°	5580	5628	5624
25°	5449	5555	5573
30°	5316	5472	5517
35°	5185	5354	5377
40°	5008	5234	5230
45°	4825	5052	5102
50°	4643	4883	4948
55°	4447	4711	4739
60°	4260	4543	4511
65°	4037	4265	4181
70°	3720	3917	3738
75°	3290	3426	2992
80°	2646	2682	2091
85°	1732	1660	1216



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	410.5	3.7
10°-20°	1154.3	10.3
20°-30°	1718.5	15.3
30°-40°	2022.8	18.0
40°-50°	2028.1	18.1
50°-60°	1778.4	15.9
60°-70°	1300.4	11.6
70°-80°	670.2	6.0
80°-90°	134.5	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°	3283.3	29.3
0°-40°	5306.0	47.3
0°-60°	9112.6	81.2
0°-90°	11217.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11217.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4367	4367	4367	4367	4367	
5°	4351	4322	4320	4348	4327	412
15°	4088	4095	4083	4109	4086	1150
25°	3670	3687	3742	3794	3754	1691
35°	3157	3171	3259	3295	3274	1966
45°	2536	2548	2655	2689	2682	1954
55°	1896	1939	2008	2037	2020	1702
65°	1268	1297	1340	1335	1313	1254
75°	633	638	659	614	576	671
85°	112	110	108	86	79	146
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4367.3	4367.3	4367.3	4367.3	4367.3
2.5°	4388.8	4367.3	4338.6	4362.5	4357.8
5°	4350.6	4321.9	4319.5	4348.2	4326.7
7.5°	4302.8	4298.1	4269.4	4300.4	4288.5
10°	4240.7	4236.0	4226.4	4247.9	4231.2
12.5°	4166.7	4162.0	4166.7	4178.7	4166.7
15°	4087.9	4095.1	4083.2	4109.4	4085.5
17.5°	3982.9	3990.0	4013.9	4023.5	4021.1
20°	3896.9	3901.7	3930.3	3968.5	3927.9
22.5°	3784.7	3796.6	3810.9	3880.2	3870.6
25°	3670.1	3686.8	3741.7	3794.2	3753.6
27.5°	3550.7	3567.4	3634.2	3672.4	3667.7
30°	3421.7	3438.4	3522.0	3574.5	3550.7
32.5°	3288.0	3316.7	3407.4	3452.8	3407.4
35°	3156.7	3171.0	3259.4	3295.2	3273.7
37.5°	2982.4	3037.3	3125.6	3149.5	3111.3
40°	2851.0	2853.4	2980.0	2980.0	2977.6
42.5°	2681.5	2719.7	2803.3	2848.7	2824.8
45°	2535.9	2547.8	2655.2	2688.7	2681.5
47.5°	2375.9	2423.6	2502.4	2540.6	2521.5
50°	2218.3	2251.7	2332.9	2383.0	2363.9
52.5°	2072.6	2098.9	2182.5	2211.1	2192.0
55°	1895.9	1938.9	2008.1	2036.8	2020.1
57.5°	1743.1	1774.1	1860.1	1869.7	1860.1
60°	1583.1	1618.9	1688.2	1695.3	1676.2
62.5°	1430.3	1454.2	1516.3	1518.6	1497.2
65°	1267.9	1296.6	1339.6	1334.8	1313.3
67.5°	1107.9	1127.0	1167.6	1150.9	1127.0
70°	945.6	962.3	995.7	971.8	950.3
72.5°	788.0	799.9	828.6	792.8	766.5
75°	632.8	637.5	659.0	613.7	575.5
77.5°	479.9	484.7	496.7	451.3	408.3
80°	341.5	341.5	346.2	298.5	269.8
82.5°	214.9	214.9	212.5	176.7	160.0
85°	112.2	109.8	107.5	86.0	78.8
87.5°	40.6	40.6	33.4	31.0	33.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)