

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: P487278

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-4STD-40-120-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: P487278
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-40-120-EDD-90
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

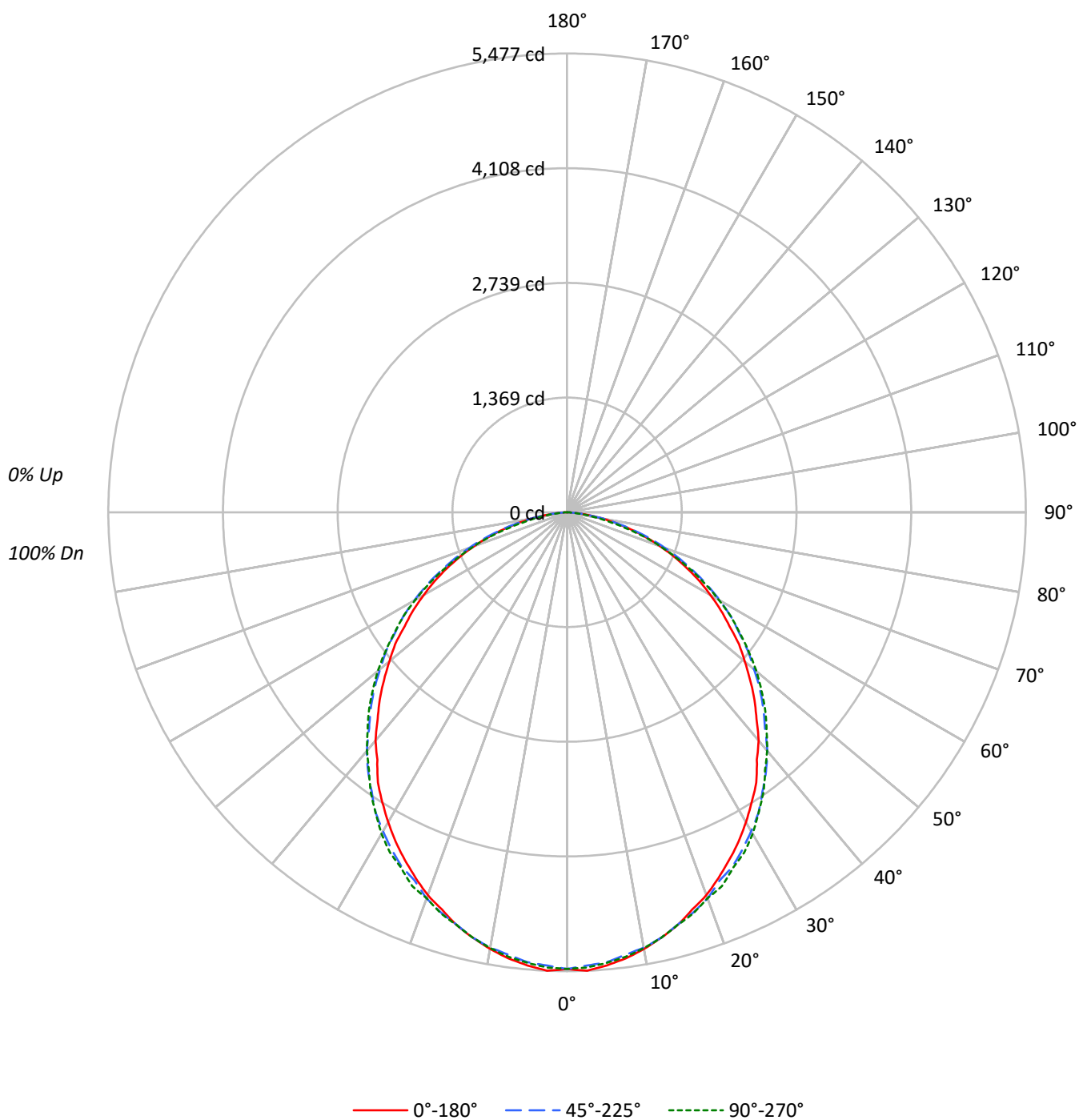
Lumens per Lamp: N/A
Luminaire Lumens: 13999.6 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

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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°	7333	7333	7333
5°	7333	7281	7293
10°	7231	7206	7214
15°	7106	7098	7102
20°	6963	7023	7019
25°	6800	6932	6955
30°	6634	6829	6884
35°	6471	6681	6711
40°	6249	6532	6527
45°	6022	6305	6368
50°	5795	6094	6175
55°	5550	5879	5914
60°	5317	5669	5629
65°	5038	5323	5218
70°	4642	4888	4666
75°	4105	4276	3734
80°	3302	3348	2609
85°	2163	2070	1518



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	512.3	3.7
10°-20°	1440.5	10.3
20°-30°	2144.7	15.3
30°-40°	2524.4	18.0
40°-50°	2531.0	18.1
50°-60°	2219.5	15.9
60°-70°	1623.0	11.6
70°-80°	836.4	6.0
80°-90°	167.8	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°	4097.5	29.3
0°-40°	6621.9	47.3
0°-60°	11372.4	81.2
0°-90°	13999.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13999.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5450	5450	5450	5450	5450	
5°	5430	5394	5391	5426	5400	514
15°	5102	5111	5096	5128	5099	1436
25°	4580	4601	4670	4735	4684	2110
35°	3940	3957	4068	4112	4086	2453
45°	3165	3180	3314	3355	3346	2439
55°	2366	2420	2506	2542	2521	2124
65°	1582	1618	1672	1666	1639	1565
75°	790	796	822	766	718	837
85°	140	137	134	107	98	183
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5450.4	5450.4	5450.4	5450.4	5450.4
2.5°	5477.2	5450.4	5414.6	5444.4	5438.4
5°	5429.5	5393.7	5390.8	5426.5	5399.7
7.5°	5369.9	5363.9	5328.2	5366.9	5352.0
10°	5292.4	5286.5	5274.5	5301.4	5280.5
12.5°	5200.0	5194.1	5200.0	5214.9	5200.0
15°	5101.7	5110.6	5095.7	5128.5	5098.7
17.5°	4970.6	4979.5	5009.3	5021.2	5018.3
20°	4863.3	4869.3	4905.0	4952.7	4902.0
22.5°	4723.2	4738.1	4756.0	4842.4	4830.5
25°	4580.2	4601.1	4669.6	4735.2	4684.5
27.5°	4431.2	4452.1	4535.5	4583.2	4577.2
30°	4270.3	4291.2	4395.5	4461.0	4431.2
32.5°	4103.4	4139.2	4252.4	4309.0	4252.4
35°	3939.5	3957.4	4067.7	4112.4	4085.5
37.5°	3722.0	3790.5	3900.8	3930.6	3882.9
40°	3558.1	3561.1	3719.0	3719.0	3716.0
42.5°	3346.5	3394.2	3498.5	3555.1	3525.3
45°	3164.7	3179.6	3313.7	3355.4	3346.5
47.5°	2965.1	3024.7	3123.0	3170.7	3146.8
50°	2768.4	2810.1	2911.4	2974.0	2950.2
52.5°	2586.6	2619.4	2723.7	2759.4	2735.6
55°	2366.1	2419.7	2506.2	2541.9	2521.1
57.5°	2175.4	2214.1	2321.4	2333.3	2321.4
60°	1975.7	2020.4	2106.8	2115.8	2091.9
62.5°	1785.0	1814.8	1892.3	1895.3	1868.4
65°	1582.4	1618.1	1671.8	1665.8	1639.0
67.5°	1382.7	1406.5	1457.2	1436.3	1406.5
70°	1180.1	1200.9	1242.6	1212.8	1186.0
72.5°	983.4	998.3	1034.0	989.3	956.6
75°	789.7	795.7	822.5	765.9	718.2
77.5°	599.0	604.9	619.8	563.2	509.6
80°	426.1	426.1	432.1	372.5	336.7
82.5°	268.2	268.2	265.2	220.5	199.7
85°	140.1	137.1	134.1	107.3	98.3
87.5°	50.7	50.7	41.7	38.7	41.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)