

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: P487304

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-5LO-50-120-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: P487304
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-LD4-5LO-50-120-EDD-90
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

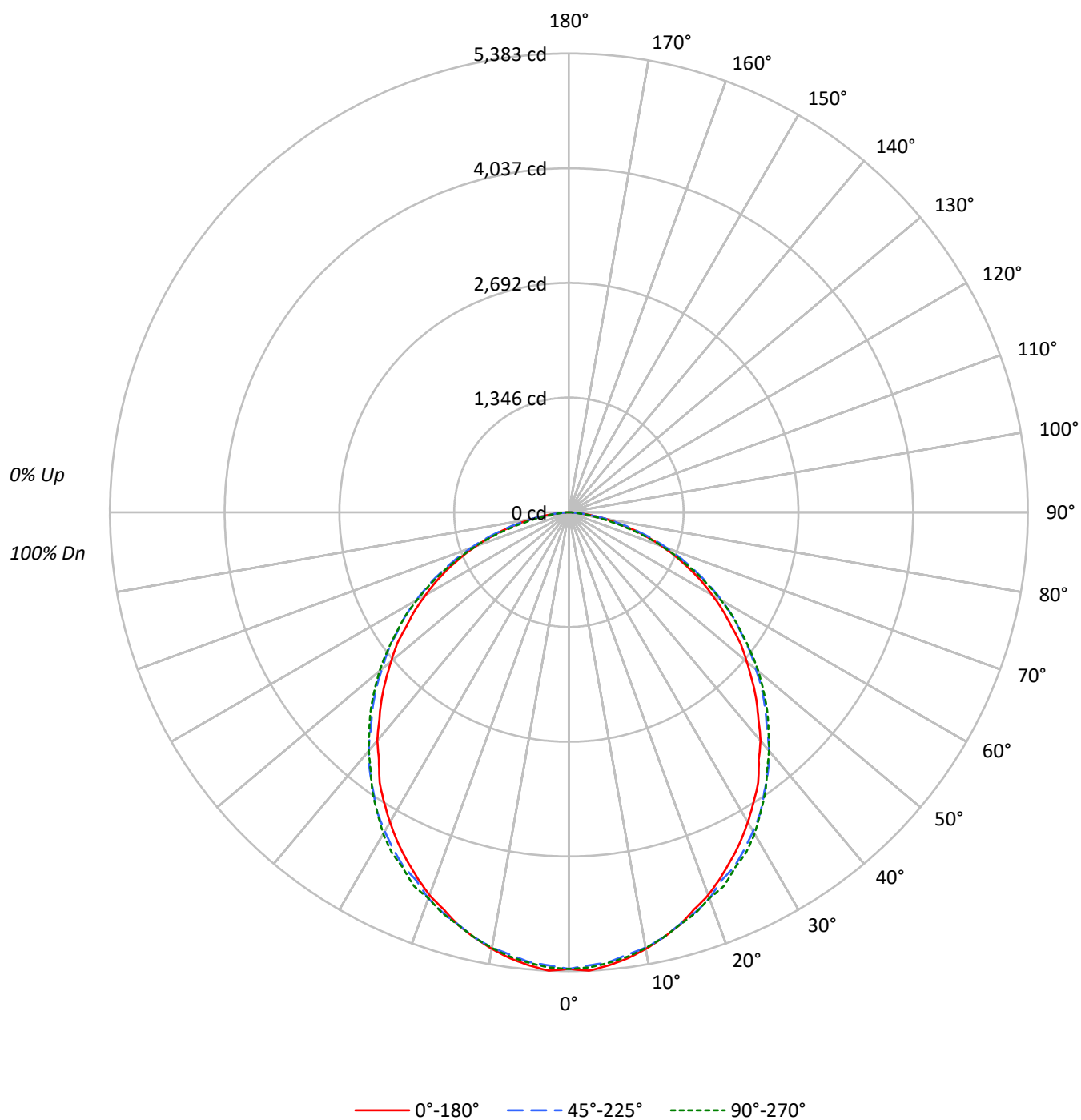
Lumens per Lamp: N/A
Luminaire Lumens: 13760.0 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 117
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°	7208	7208	7208
5°	7208	7156	7168
10°	7107	7083	7091
15°	6985	6977	6981
20°	6844	6903	6899
25°	6683	6814	6835
30°	6521	6712	6767
35°	6360	6567	6596
40°	6143	6420	6415
45°	5919	6197	6259
50°	5696	5990	6070
55°	5455	5778	5813
60°	5226	5572	5533
65°	4952	5231	5129
70°	4563	4805	4586
75°	4035	4203	3670
80°	3245	3291	2565
85°	2126	2035	1493



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	503.5	3.7
10°-20°	1415.9	10.3
20°-30°	2108.0	15.3
30°-40°	2481.2	18.0
40°-50°	2487.7	18.1
50°-60°	2181.5	15.9
60°-70°	1595.2	11.6
70°-80°	822.1	6.0
80°-90°	164.9	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°	4027.4	29.3
0°-40°	6508.5	47.3
0°-60°	11177.8	81.2
0°-90°	13760.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13760.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5357	5357	5357	5357	5357	
5°	5337	5301	5298	5334	5307	505
15°	5014	5023	5008	5041	5012	1411
25°	4502	4522	4590	4654	4604	2074
35°	3872	3890	3998	4042	4016	2411
45°	3111	3125	3257	3298	3289	2397
55°	2326	2378	2463	2498	2478	2088
65°	1555	1590	1643	1637	1611	1538
75°	776	782	808	753	706	823
85°	138	135	132	105	97	180
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5357.1	5357.1	5357.1	5357.1	5357.1
2.5°	5383.4	5357.1	5321.9	5351.2	5345.4
5°	5336.6	5301.4	5298.5	5333.6	5307.3
7.5°	5278.0	5272.1	5237.0	5275.1	5260.4
10°	5201.8	5196.0	5184.3	5210.6	5190.1
12.5°	5111.0	5105.2	5111.0	5125.7	5111.0
15°	5014.4	5023.2	5008.5	5040.7	5011.5
17.5°	4885.5	4894.3	4923.6	4935.3	4932.4
20°	4780.1	4785.9	4821.1	4867.9	4818.1
22.5°	4642.4	4657.1	4674.6	4759.6	4747.9
25°	4501.8	4522.3	4589.7	4654.1	4604.3
27.5°	4355.4	4375.9	4457.9	4504.7	4498.9
30°	4197.2	4217.7	4320.2	4384.7	4355.4
32.5°	4033.2	4068.3	4179.6	4235.3	4179.6
35°	3872.1	3889.7	3998.0	4042.0	4015.6
37.5°	3658.3	3725.6	3834.0	3863.3	3816.4
40°	3497.2	3500.1	3655.3	3655.3	3652.4
42.5°	3289.2	3336.1	3438.6	3494.3	3465.0
45°	3110.6	3125.2	3257.0	3298.0	3289.2
47.5°	2914.3	2972.9	3069.6	3116.4	3093.0
50°	2721.0	2762.0	2861.6	2923.1	2899.7
52.5°	2542.3	2574.6	2677.1	2712.2	2688.8
55°	2325.6	2378.3	2463.3	2498.4	2477.9
57.5°	2138.1	2176.2	2281.7	2293.4	2281.7
60°	1941.9	1985.8	2070.8	2079.6	2056.1
62.5°	1754.4	1783.7	1859.9	1862.8	1836.5
65°	1555.3	1590.4	1643.1	1637.3	1610.9
67.5°	1359.0	1382.5	1432.3	1411.8	1382.5
70°	1159.9	1180.4	1221.4	1192.1	1165.7
72.5°	966.6	981.2	1016.4	972.4	940.2
75°	776.2	782.0	808.4	752.7	705.9
77.5°	588.7	594.6	609.2	553.6	500.9
80°	418.8	418.8	424.7	366.1	331.0
82.5°	263.6	263.6	260.7	216.7	196.2
85°	137.7	134.7	131.8	105.4	96.7
87.5°	49.8	49.8	41.0	38.1	41.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)