

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: P487349

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-6STD-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: P487349
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-LD4-6STD-35-120-EDD
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

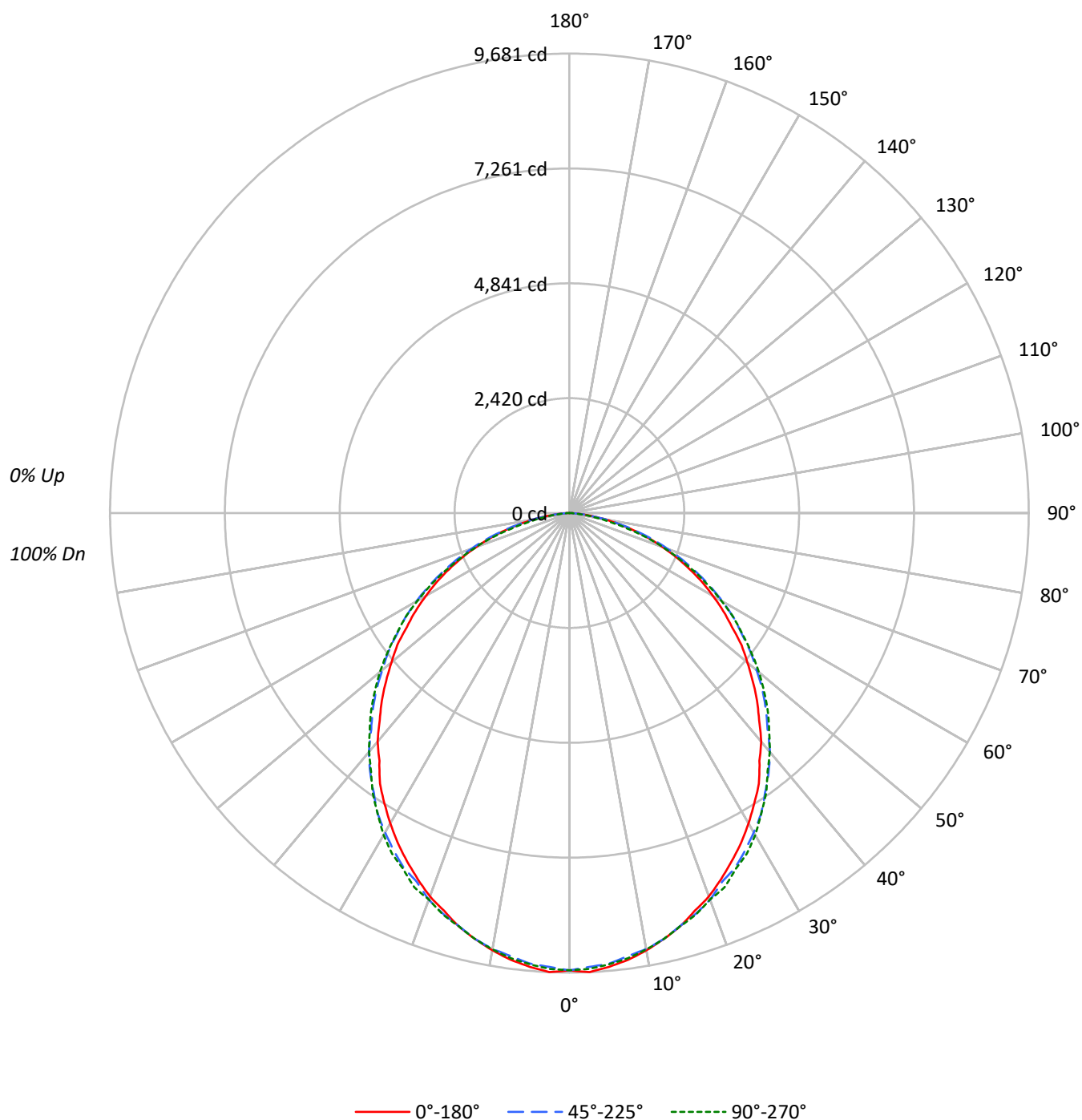
Lumens per Lamp: N/A
Luminaire Lumens: 24745.0 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 199.8
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°	12962	12962	12962
5°	12962	12869	12891
10°	12781	12738	12752
15°	12561	12546	12554
20°	12308	12414	12406
25°	12019	12253	12292
30°	11727	12071	12169
35°	11437	11810	11861
40°	11046	11546	11536
45°	10644	11145	11255
50°	10243	10772	10915
55°	9811	10391	10453
60°	9397	10021	9950
65°	8904	9408	9223
70°	8205	8641	8247
75°	7256	7558	6599
80°	5836	5917	4612
85°	3822	3659	2683



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	905.5	3.7
10°-20°	2546.2	10.3
20°-30°	3790.8	15.3
30°-40°	4462.0	18.0
40°-50°	4473.7	18.1
50°-60°	3923.1	15.9
60°-70°	2868.7	11.6
70°-80°	1478.4	6.0
80°-90°	296.6	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°	7242.5	29.3
0°-40°	11704.5	47.3
0°-60°	20101.3	81.2
0°-90°	24745.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	24745.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9634	9634	9634	9634	9634	
5°	9597	9534	9528	9592	9544	908
15°	9018	9033	9007	9065	9012	2538
25°	8096	8133	8254	8370	8280	3729
35°	6963	6995	7190	7269	7221	4337
45°	5594	5620	5857	5931	5915	4311
55°	4182	4277	4430	4493	4456	3754
65°	2797	2860	2955	2944	2897	2767
75°	1396	1406	1454	1354	1269	1479
85°	248	242	237	190	174	323
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9633.8	9633.8	9633.8	9633.8	9633.8
2.5°	9681.2	9633.8	9570.6	9623.2	9612.7
5°	9596.9	9533.7	9528.4	9591.6	9544.2
7.5°	9491.6	9481.0	9417.8	9486.3	9460.0
10°	9354.6	9344.1	9323.0	9370.4	9333.6
12.5°	9191.3	9180.8	9191.3	9217.7	9191.3
15°	9017.5	9033.3	9007.0	9064.9	9012.2
17.5°	8785.8	8801.6	8854.2	8875.3	8870.0
20°	8596.1	8606.7	8669.9	8754.2	8664.6
22.5°	8348.6	8374.9	8406.5	8559.3	8538.2
25°	8095.7	8132.6	8253.8	8369.6	8280.1
27.5°	7832.4	7869.3	8016.7	8101.0	8090.5
30°	7548.0	7584.8	7769.2	7885.1	7832.4
32.5°	7253.0	7316.2	7516.4	7616.4	7516.4
35°	6963.3	6994.9	7189.8	7268.8	7221.4
37.5°	6578.8	6699.9	6894.8	6947.5	6863.2
40°	6289.1	6294.4	6573.5	6573.5	6568.2
42.5°	5915.1	5999.4	6183.7	6283.8	6231.1
45°	5593.8	5620.1	5857.2	5930.9	5915.1
47.5°	5240.9	5346.2	5520.1	5604.3	5562.2
50°	4893.3	4967.0	5146.1	5256.7	5214.6
52.5°	4572.0	4629.9	4814.3	4877.5	4835.3
55°	4182.2	4277.0	4429.7	4493.0	4456.1
57.5°	3845.1	3913.6	4103.2	4124.2	4103.2
60°	3492.2	3571.2	3723.9	3739.7	3697.6
62.5°	3155.1	3207.7	3344.7	3350.0	3302.6
65°	2796.9	2860.1	2954.9	2944.4	2897.0
67.5°	2444.0	2486.1	2575.7	2538.8	2486.1
70°	2085.8	2122.7	2196.4	2143.8	2096.4
72.5°	1738.2	1764.5	1827.7	1748.7	1690.8
75°	1395.8	1406.4	1453.8	1353.7	1269.4
77.5°	1058.7	1069.2	1095.6	995.5	900.7
80°	753.2	753.2	763.7	658.4	595.2
82.5°	474.1	474.1	468.8	389.8	352.9
85°	247.6	242.3	237.0	189.6	173.8
87.5°	89.5	89.5	73.7	68.5	73.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)