

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: P487243

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-3STD-40-120-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: P487243
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-LD4-3STD-40-120-EDD
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

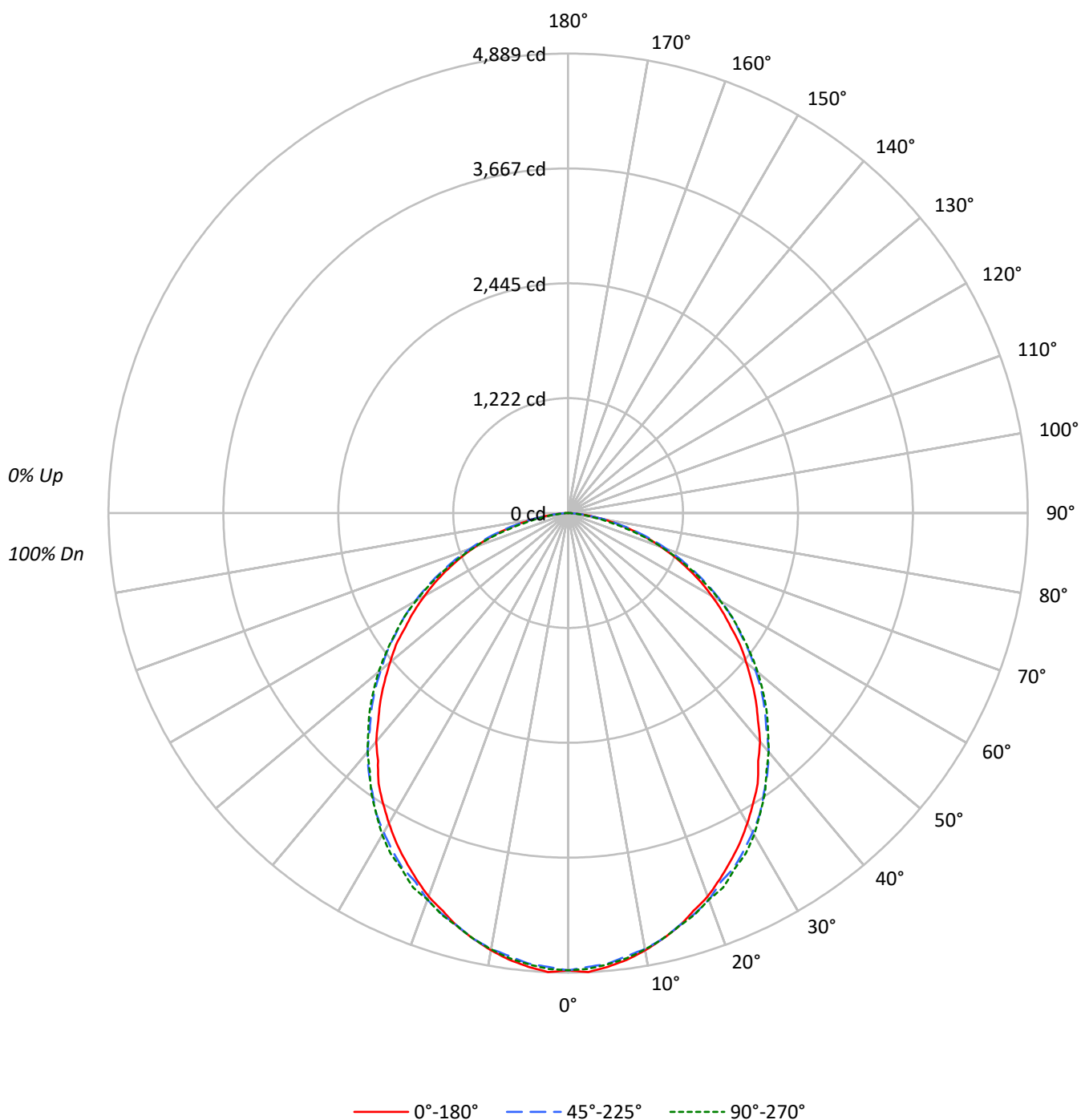
Lumens per Lamp: N/A
Luminaire Lumens: 12496.2 lumens
Efficiency: N/A
Efficacy: 125.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	6546	6546	6546
5°	6546	6499	6510
10°	6454	6432	6440
15°	6343	6336	6340
20°	6216	6269	6265
25°	6069	6188	6208
30°	5922	6096	6145
35°	5776	5964	5990
40°	5578	5831	5826
45°	5375	5628	5684
50°	5173	5440	5512
55°	4954	5248	5279
60°	4746	5061	5025
65°	4497	4751	4658
70°	4144	4364	4165
75°	3664	3816	3332
80°	2947	2989	2329
85°	1930	1848	1355



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	457.3	3.7
10°-20°	1285.8	10.3
20°-30°	1914.3	15.3
30°-40°	2253.3	18.0
40°-50°	2259.2	18.1
50°-60°	1981.1	15.9
60°-70°	1448.7	11.6
70°-80°	746.6	6.0
80°-90°	149.8	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°	3657.5	29.3
0°-40°	5910.8	47.3
0°-60°	10151.1	81.2
0°-90°	12496.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12496.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4865	4865	4865	4865	4865	
5°	4846	4814	4812	4844	4820	459
15°	4554	4562	4548	4578	4551	1282
25°	4088	4107	4168	4227	4181	1883
35°	3516	3532	3631	3671	3647	2190
45°	2825	2838	2958	2995	2987	2177
55°	2112	2160	2237	2269	2250	1896
65°	1412	1444	1492	1487	1463	1397
75°	705	710	734	684	641	747
85°	125	122	120	96	88	163
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4865.1	4865.1	4865.1	4865.1	4865.1
2.5°	4889.0	4865.1	4833.1	4859.7	4854.4
5°	4846.4	4814.5	4811.9	4843.8	4819.8
7.5°	4793.2	4787.9	4756.0	4790.6	4777.3
10°	4724.1	4718.8	4708.1	4732.1	4713.4
12.5°	4641.6	4636.3	4641.6	4654.9	4641.6
15°	4553.8	4561.8	4548.5	4577.8	4551.2
17.5°	4436.8	4444.8	4471.4	4482.0	4479.4
20°	4341.0	4346.4	4378.3	4420.8	4375.6
22.5°	4216.0	4229.3	4245.3	4322.4	4311.8
25°	4088.3	4107.0	4168.1	4226.7	4181.4
27.5°	3955.3	3974.0	4048.4	4091.0	4085.7
30°	3811.7	3830.3	3923.4	3981.9	3955.3
32.5°	3662.8	3694.7	3795.8	3846.3	3795.8
35°	3516.5	3532.4	3630.8	3670.7	3646.8
37.5°	3322.3	3383.5	3481.9	3508.5	3465.9
40°	3176.0	3178.6	3319.6	3319.6	3317.0
42.5°	2987.1	3029.7	3122.8	3173.3	3146.7
45°	2824.9	2838.2	2957.9	2995.1	2987.1
47.5°	2646.7	2699.9	2787.6	2830.2	2808.9
50°	2471.1	2508.3	2598.8	2654.6	2633.4
52.5°	2308.8	2338.1	2431.2	2463.1	2441.8
55°	2112.0	2159.9	2237.0	2268.9	2250.3
57.5°	1941.8	1976.3	2072.1	2082.7	2072.1
60°	1763.5	1803.4	1880.6	1888.6	1867.3
62.5°	1593.3	1619.9	1689.1	1691.7	1667.8
65°	1412.4	1444.4	1492.2	1486.9	1463.0
67.5°	1234.2	1255.5	1300.7	1282.1	1255.5
70°	1053.3	1072.0	1109.2	1082.6	1058.7
72.5°	877.8	891.1	923.0	883.1	853.8
75°	704.9	710.2	734.1	683.6	641.0
77.5°	534.7	540.0	553.3	502.7	454.9
80°	380.4	380.4	385.7	332.5	300.6
82.5°	239.4	239.4	236.7	196.8	178.2
85°	125.0	122.4	119.7	95.8	87.8
87.5°	45.2	45.2	37.2	34.6	37.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)