

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: P487297

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-5LO-27-120-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: P487297
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-27-120-EDD
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

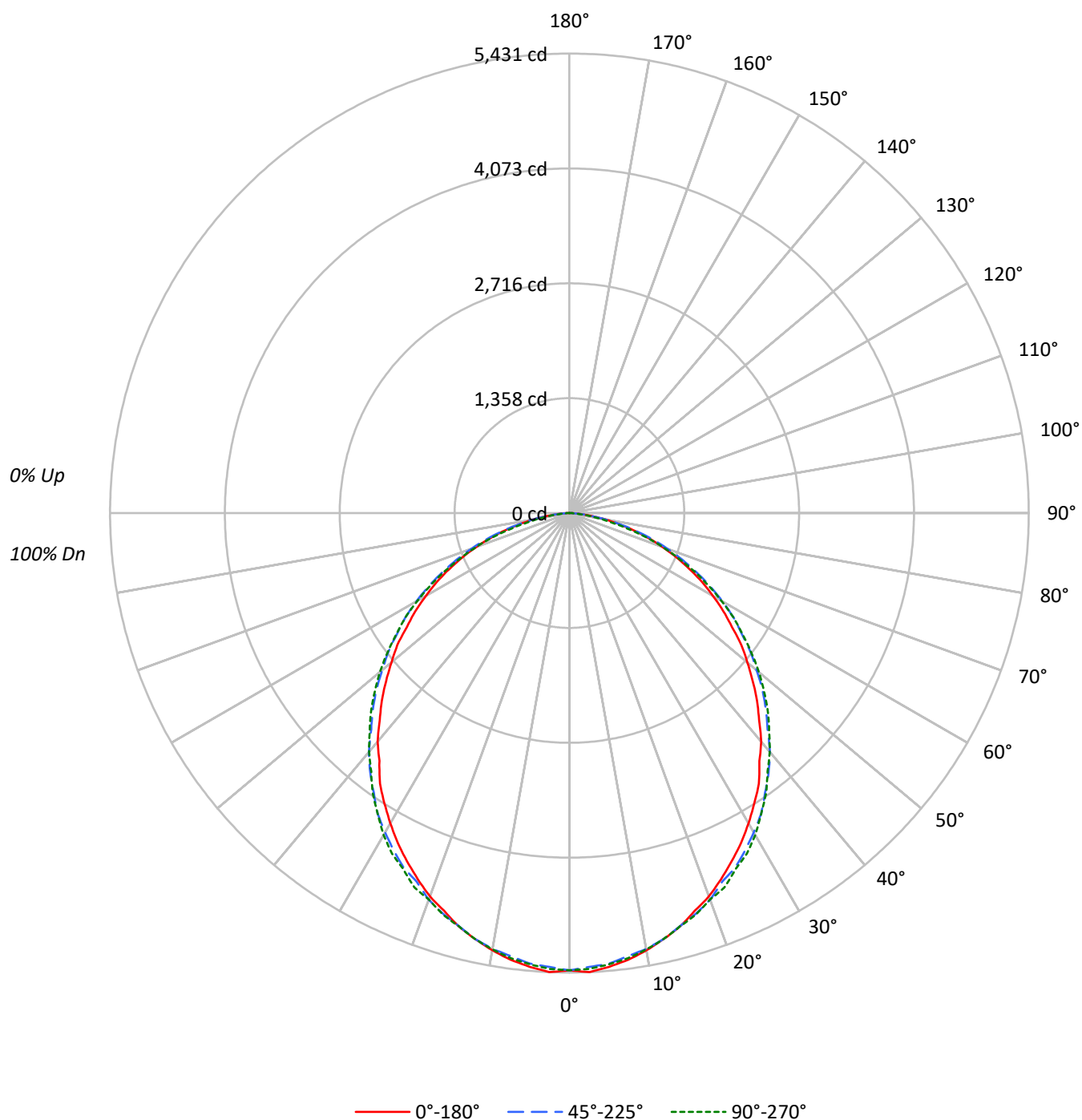
Lumens per Lamp: N/A
Luminaire Lumens: 13881.7 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	7272	7272	7272
5°	7272	7220	7232
10°	7170	7146	7154
15°	7047	7038	7042
20°	6905	6964	6960
25°	6742	6874	6896
30°	6579	6771	6827
35°	6416	6625	6654
40°	6197	6477	6472
45°	5971	6252	6314
50°	5746	6043	6123
55°	5504	5829	5864
60°	5272	5622	5582
65°	4995	5278	5174
70°	4603	4847	4626
75°	4070	4239	3702
80°	3274	3320	2587
85°	2144	2053	1505



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	508.0	3.7
10°-20°	1428.4	10.3
20°-30°	2126.6	15.3
30°-40°	2503.1	18.0
40°-50°	2509.7	18.1
50°-60°	2200.8	15.9
60°-70°	1609.3	11.6
70°-80°	829.4	6.0
80°-90°	166.4	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°	4063.0	29.3
0°-40°	6566.1	47.3
0°-60°	11276.6	81.2
0°-90°	13881.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13881.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5404	5404	5404	5404	5404	
5°	5384	5348	5345	5381	5354	510
15°	5059	5068	5053	5085	5056	1424
25°	4542	4562	4630	4695	4645	2092
35°	3906	3924	4033	4078	4051	2433
45°	3138	3153	3286	3327	3318	2418
55°	2346	2399	2485	2520	2500	2106
65°	1569	1604	1658	1652	1625	1552
75°	783	789	816	759	712	830
85°	139	136	133	106	98	181
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5404.5	5404.5	5404.5	5404.5	5404.5
2.5°	5431.1	5404.5	5369.0	5398.5	5392.6
5°	5383.8	5348.3	5345.4	5380.8	5354.2
7.5°	5324.7	5318.8	5283.3	5321.7	5306.9
10°	5247.8	5241.9	5230.1	5256.7	5236.0
12.5°	5156.2	5150.3	5156.2	5171.0	5156.2
15°	5058.7	5067.6	5052.8	5085.3	5055.8
17.5°	4928.7	4937.6	4967.1	4979.0	4976.0
20°	4822.3	4828.3	4863.7	4911.0	4860.8
22.5°	4683.5	4698.2	4716.0	4801.7	4789.8
25°	4541.6	4562.3	4630.3	4695.3	4645.1
27.5°	4393.9	4414.6	4497.3	4544.6	4538.7
30°	4234.3	4255.0	4358.4	4423.4	4393.9
32.5°	4068.9	4104.3	4216.6	4272.7	4216.6
35°	3906.3	3924.1	4033.4	4077.7	4051.1
37.5°	3690.6	3758.6	3867.9	3897.5	3850.2
40°	3528.1	3531.1	3687.7	3687.7	3684.7
42.5°	3318.3	3365.6	3469.0	3525.2	3495.6
45°	3138.1	3152.8	3285.8	3327.2	3318.3
47.5°	2940.1	2999.2	3096.7	3144.0	3120.3
50°	2745.1	2786.4	2886.9	2949.0	2925.3
52.5°	2564.8	2597.3	2700.8	2736.2	2712.6
55°	2346.2	2399.4	2485.0	2520.5	2499.8
57.5°	2157.1	2195.5	2301.8	2313.7	2301.8
60°	1959.1	2003.4	2089.1	2098.0	2074.3
62.5°	1770.0	1799.5	1876.3	1879.3	1852.7
65°	1569.0	1604.5	1657.7	1651.8	1625.2
67.5°	1371.1	1394.7	1444.9	1424.2	1394.7
70°	1170.1	1190.8	1232.2	1202.6	1176.0
72.5°	975.1	989.9	1025.3	981.0	948.5
75°	783.0	789.0	815.5	759.4	712.1
77.5°	593.9	599.8	614.6	558.5	505.3
80°	422.5	422.5	428.5	369.4	333.9
82.5°	265.9	265.9	263.0	218.7	198.0
85°	138.9	135.9	133.0	106.4	97.5
87.5°	50.2	50.2	41.4	38.4	41.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)