

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: P487242

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-3STD-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: P487242
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-90
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

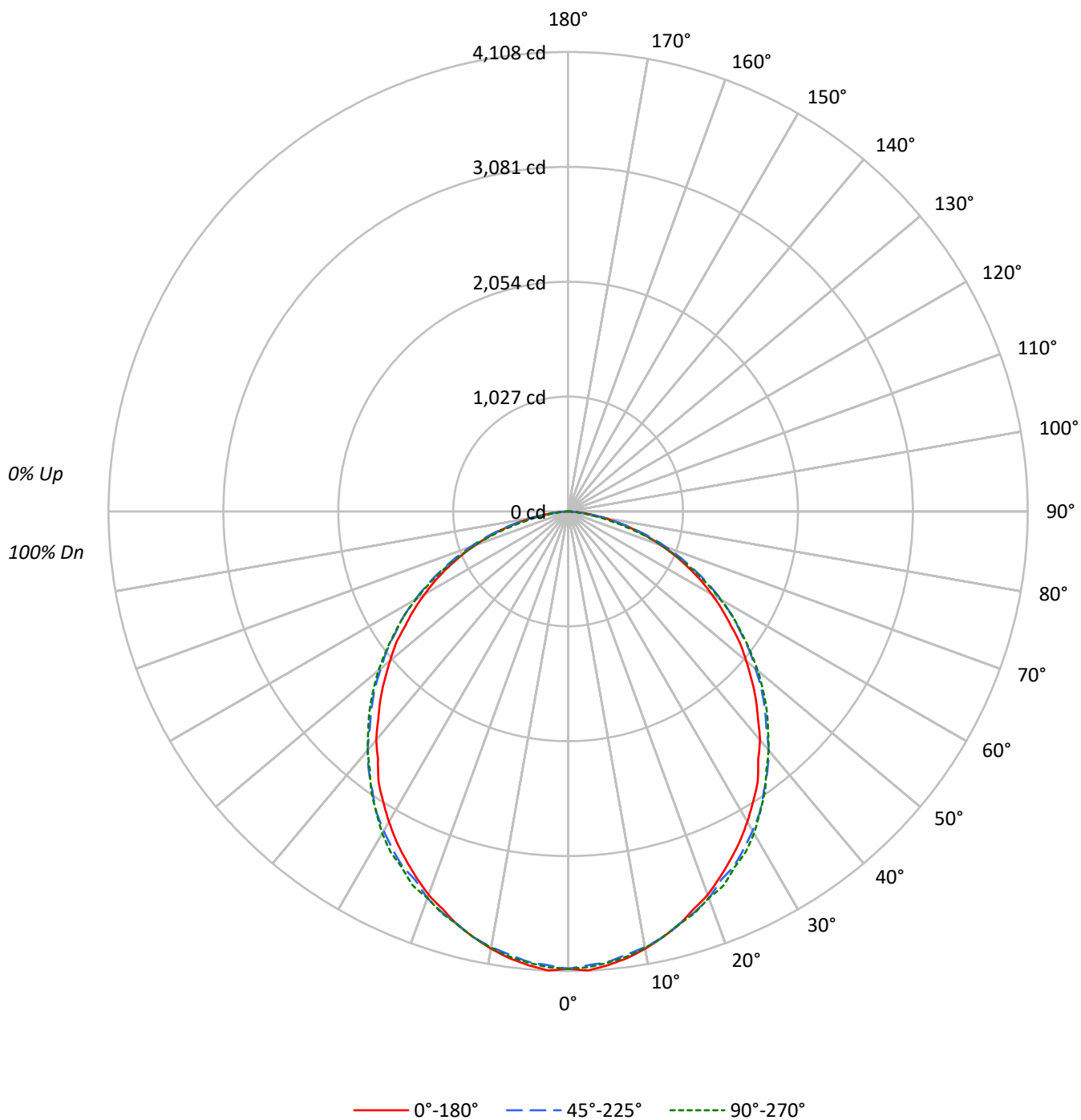
Lumens per Lamp: N/A
Luminaire Lumens: 10499.7 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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				10			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85		
2	100	92	85	79	97	90	84	79	86	81	77	83	79	75	80	76	73	71		
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60		
4	83	72	63	57	81	70	62	56	68	61	55	66	59	55	63	58	54	52		
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39		
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35		
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31		
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28		
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5500	5500	5500
5°	5500	5461	5470
10°	5423	5405	5411
15°	5330	5324	5327
20°	5223	5267	5264
25°	5100	5199	5216
30°	4976	5122	5163
35°	4853	5011	5033
40°	4687	4899	4895
45°	4516	4729	4776
50°	4346	4571	4631
55°	4163	4409	4435
60°	3987	4252	4222
65°	3778	3992	3913
70°	3482	3666	3499
75°	3079	3207	2800
80°	2476	2511	1957
85°	1621	1553	1139



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	384.2	3.7
10°-20°	1080.4	10.3
20°-30°	1608.5	15.3
30°-40°	1893.3	18.0
40°-50°	1898.3	18.1
50°-60°	1664.6	15.9
60°-70°	1217.2	11.6
70°-80°	627.3	6.0
80°-90°	125.9	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°	3073.1	29.3
0°-40°	4966.4	47.3
0°-60°	8529.3	81.2
0°-90°	10499.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10499.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4088	4088	4088	4088	4088	
5°	4072	4045	4043	4070	4050	385
15°	3826	3833	3822	3846	3824	1077
25°	3435	3451	3502	3551	3513	1582
35°	2955	2968	3051	3084	3064	1840
45°	2374	2385	2485	2517	2510	1829
55°	1775	1815	1880	1906	1891	1593
65°	1187	1214	1254	1249	1229	1174
75°	592	597	617	574	539	628
85°	105	103	101	80	74	137
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4087.8	4087.8	4087.8	4087.8	4087.8
2.5°	4107.9	4087.8	4060.9	4083.3	4078.8
5°	4072.1	4045.3	4043.1	4069.9	4049.8
7.5°	4027.4	4023.0	3996.1	4025.2	4014.0
10°	3969.3	3964.8	3955.9	3976.0	3960.4
12.5°	3900.0	3895.6	3900.0	3911.2	3900.0
15°	3826.3	3833.0	3821.8	3846.4	3824.0
17.5°	3727.9	3734.6	3757.0	3765.9	3763.7
20°	3647.5	3651.9	3678.8	3714.5	3676.5
22.5°	3542.4	3553.6	3567.0	3631.8	3622.9
25°	3435.2	3450.8	3502.2	3551.4	3513.4
27.5°	3323.4	3339.1	3401.6	3437.4	3432.9
30°	3202.7	3218.4	3296.6	3345.8	3323.4
32.5°	3077.6	3104.4	3189.3	3231.8	3189.3
35°	2954.6	2968.0	3050.7	3084.3	3064.2
37.5°	2791.5	2842.9	2925.6	2947.9	2912.2
40°	2668.6	2670.8	2789.2	2789.2	2787.0
42.5°	2509.9	2545.6	2623.9	2666.3	2644.0
45°	2373.5	2384.7	2485.3	2516.6	2509.9
47.5°	2223.8	2268.5	2342.3	2378.0	2360.1
50°	2076.3	2107.6	2183.6	2230.5	2212.6
52.5°	1940.0	1964.5	2042.8	2069.6	2051.7
55°	1774.6	1814.8	1879.6	1906.4	1890.8
57.5°	1631.5	1660.6	1741.0	1750.0	1741.0
60°	1481.8	1515.3	1580.1	1586.8	1569.0
62.5°	1338.7	1361.1	1419.2	1421.4	1401.3
65°	1186.8	1213.6	1253.8	1249.4	1229.2
67.5°	1037.0	1054.9	1092.9	1077.3	1054.9
70°	885.0	900.7	932.0	909.6	889.5
72.5°	737.5	748.7	775.5	742.0	717.4
75°	592.3	596.7	616.9	574.4	538.6
77.5°	449.2	453.7	464.9	422.4	382.2
80°	319.6	319.6	324.1	279.4	252.6
82.5°	201.1	201.1	198.9	165.4	149.7
85°	105.0	102.8	100.6	80.5	73.8
87.5°	38.0	38.0	31.3	29.1	31.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)