

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: P489484

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-3LO-35-120-EDD-90**

Issue Date: 3/11/2021

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: P489484
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-115-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/11/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: CLM-24-4-INS-A12125-LD4-3LO-35-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

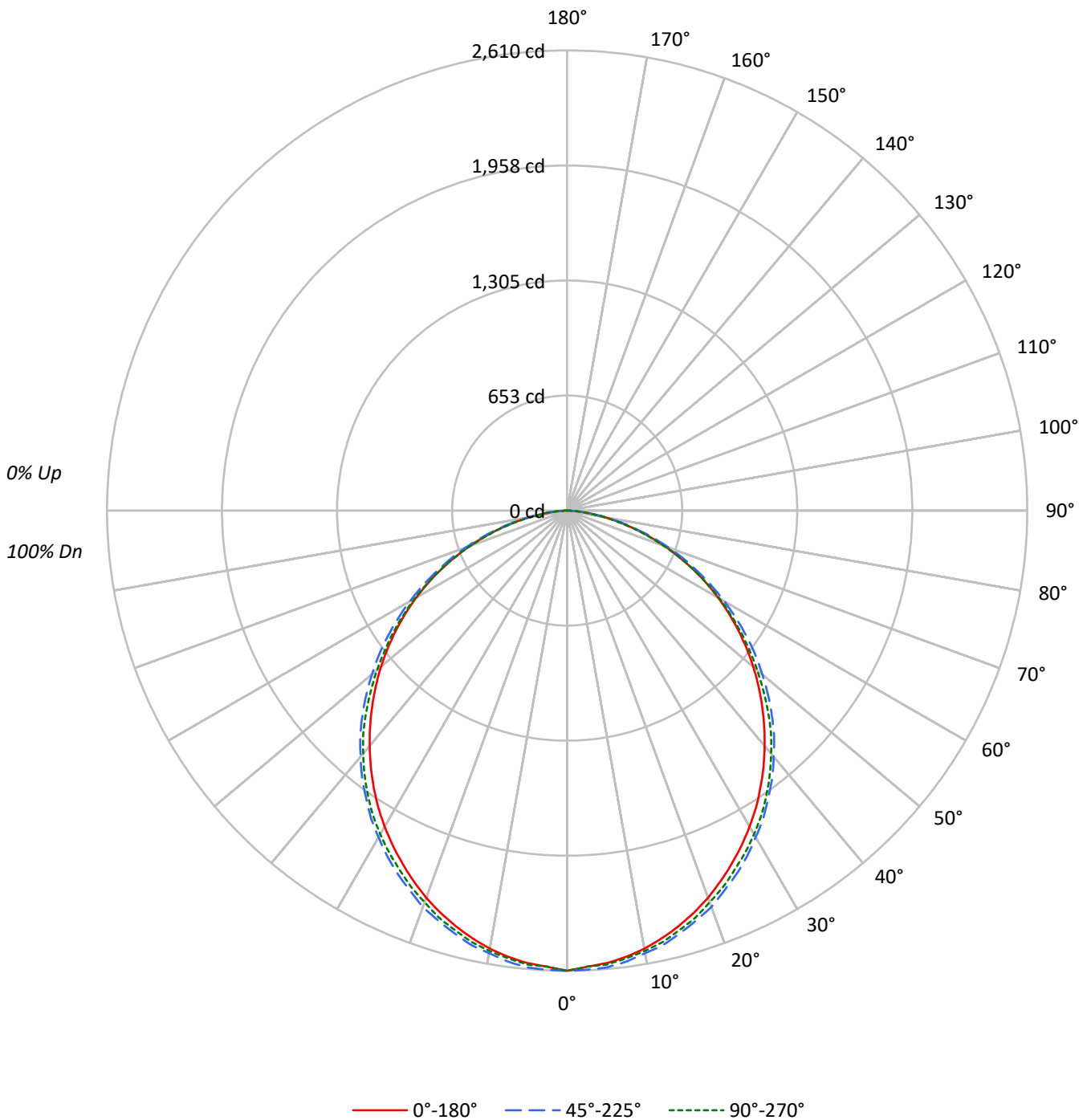
Lumens per Lamp: N/A
Luminaire Lumens: 6862.0 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 70.2
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	0
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	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51
5	77	64	55	48	75	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39
7	66	52	44	38	64	51	43	37	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3512	3512	3512
5°	3479	3512	3490
10°	3447	3482	3466
15°	3400	3455	3430
20°	3346	3426	3384
25°	3281	3376	3337
30°	3215	3324	3293
35°	3142	3267	3237
40°	3061	3202	3161
45°	2975	3125	3066
50°	2885	3025	2946
55°	2781	2911	2822
60°	2662	2773	2687
65°	2509	2605	2511
70°	2308	2402	2283
75°	2033	2125	2002
80°	1652	1723	1633
85°	1150	1226	1196



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.8	3.6
10°-20°	696.6	10.2
20°-30°	1038.9	15.1
30°-40°	1231.1	17.9
40°-50°	1245.7	18.2
50°-60°	1088.0	15.9
60°-70°	795.0	11.6
70°-80°	423.0	6.2
80°-90°	97.8	1.4
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°	1981.3	28.9
0°-40°	3212.5	46.8
0°-60°	5546.2	80.8
0°-90°	6862.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6862.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2610	2610	2610	2610	2610	
5°	2576	2581	2600	2606	2584	244
15°	2441	2457	2480	2495	2463	688
25°	2210	2237	2274	2283	2248	1018
35°	1913	1943	1989	2003	1970	1196
45°	1563	1591	1642	1644	1611	1206
55°	1185	1209	1241	1223	1203	1060
65°	788	804	818	802	789	780
75°	391	400	409	394	385	416
85°	74	76	79	80	78	94
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2610.1	2610.1	2610.1	2610.1	2610.1
2.5°	2589.7	2598.1	2606.8	2610.6	2589.4
5°	2576.1	2581.0	2600.3	2606.3	2584.2
7.5°	2553.8	2561.1	2579.9	2582.6	2561.4
10°	2523.3	2536.4	2548.9	2562.5	2536.6
12.5°	2484.4	2502.1	2523.3	2525.8	2506.2
15°	2440.6	2457.0	2480.1	2495.0	2462.7
17.5°	2391.7	2407.5	2437.4	2440.1	2420.5
20°	2337.0	2356.6	2392.5	2398.8	2363.7
22.5°	2275.0	2301.4	2331.3	2337.3	2311.5
25°	2210.0	2237.2	2274.2	2282.6	2248.1
27.5°	2142.1	2168.2	2209.8	2215.8	2186.7
30°	2069.2	2093.7	2139.3	2149.4	2119.8
32.5°	1995.2	2019.7	2070.3	2078.7	2049.9
35°	1913.1	1943.0	1989.0	2002.8	1970.5
37.5°	1829.3	1858.4	1910.6	1923.1	1888.3
40°	1742.6	1771.4	1822.8	1833.1	1799.7
42.5°	1653.9	1682.8	1737.7	1739.3	1711.6
45°	1563.4	1591.1	1642.2	1643.6	1611.2
47.5°	1471.5	1499.5	1545.2	1540.0	1509.5
50°	1378.5	1405.1	1445.1	1434.7	1407.3
52.5°	1282.2	1308.0	1345.8	1329.0	1303.1
55°	1185.4	1209.3	1240.9	1222.9	1202.8
57.5°	1087.8	1112.0	1136.2	1117.9	1100.5
60°	989.3	1010.5	1030.4	1011.9	998.6
62.5°	889.2	907.5	924.6	906.9	894.4
65°	788.1	804.1	818.3	801.9	788.6
67.5°	687.5	701.1	714.1	697.2	683.4
70°	586.8	598.5	610.5	593.1	580.3
72.5°	487.6	497.9	508.5	491.7	480.5
75°	391.0	400.0	408.7	393.8	385.1
77.5°	298.9	306.5	312.5	302.9	294.5
80°	213.2	218.9	222.4	218.6	210.8
82.5°	137.1	141.1	143.0	142.8	137.6
85°	74.5	75.9	79.4	80.2	77.5
87.5°	28.8	30.7	31.5	34.0	31.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)