

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: P489431

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-2HI-20-120-EDD**

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: P489431
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-LD4-2HI-20-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

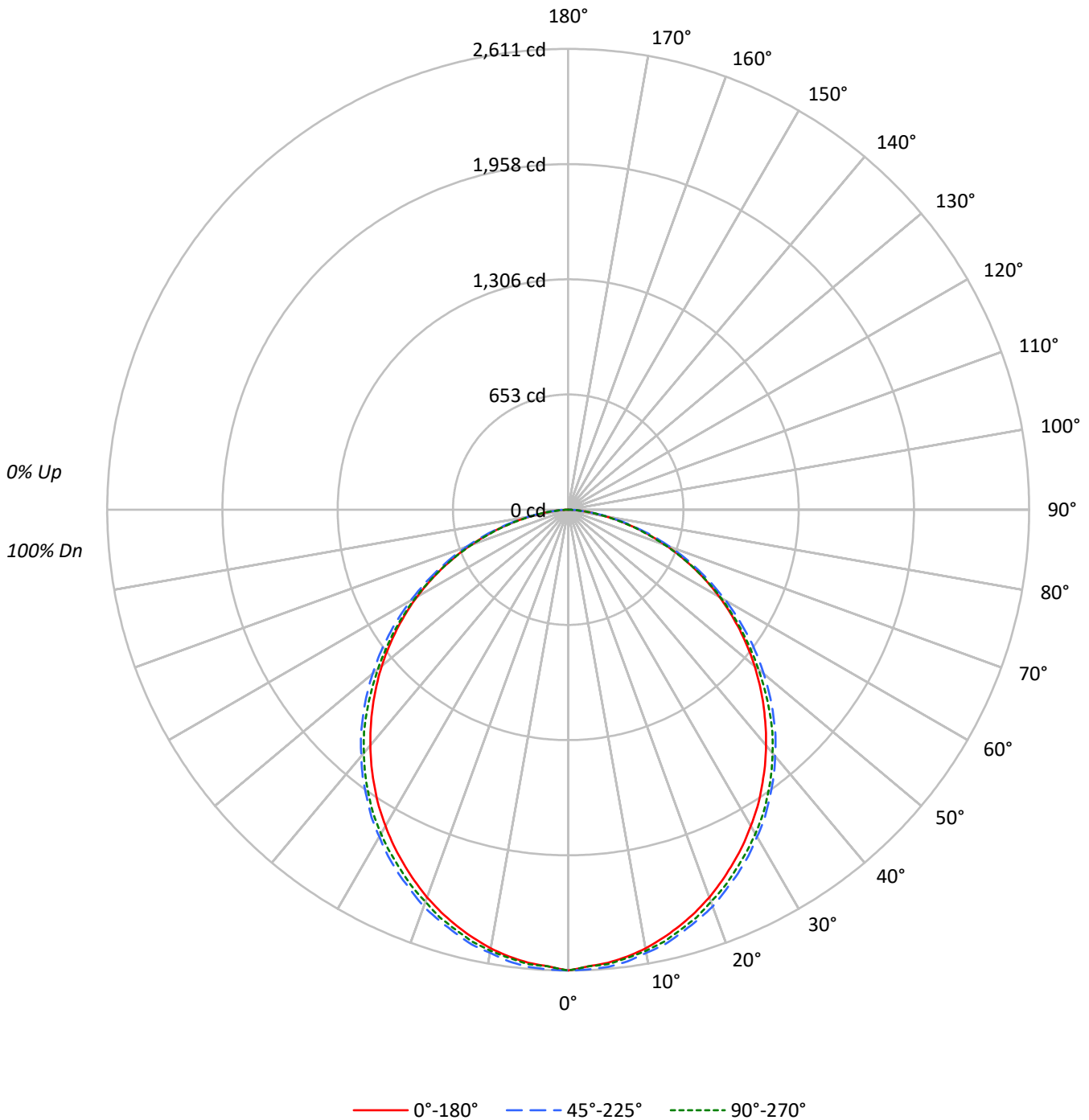
Lumens per Lamp: N/A
Luminaire Lumens: 6863.4 lumens
Efficiency: N/A
Efficacy: 79.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 86.4
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°	3513	3513	3513
5°	3480	3513	3491
10°	3448	3483	3466
15°	3400	3455	3431
20°	3347	3426	3385
25°	3282	3377	3338
30°	3215	3324	3294
35°	3143	3268	3237
40°	3061	3202	3162
45°	2975	3126	3067
50°	2886	3026	2946
55°	2781	2911	2822
60°	2663	2773	2688
65°	2509	2606	2511
70°	2309	2402	2283
75°	2033	2125	2002
80°	1652	1724	1633
85°	1150	1226	1196



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.9	3.6
10°-20°	696.7	10.2
20°-30°	1039.1	15.1
30°-40°	1231.4	17.9
40°-50°	1246.0	18.2
50°-60°	1088.2	15.9
60°-70°	795.2	11.6
70°-80°	423.1	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°	1981.7	28.9
0°-40°	3213.1	46.8
0°-60°	5547.3	80.8
0°-90°	6863.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6863.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2611	2611	2611	2611	2611	
5°	2577	2582	2601	2607	2585	244
15°	2441	2458	2481	2496	2463	688
25°	2210	2238	2275	2283	2249	1018
35°	1914	1943	1989	2003	1971	1197
45°	1564	1591	1643	1644	1612	1206
55°	1186	1210	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°	2610.6	2610.6	2610.6	2610.6	2610.6
2.5°	2590.2	2598.6	2607.3	2611.1	2589.9
5°	2576.6	2581.5	2600.8	2606.8	2584.8
7.5°	2554.3	2561.6	2580.4	2583.1	2561.9
10°	2523.8	2536.9	2549.4	2563.0	2537.2
12.5°	2484.9	2502.6	2523.8	2526.3	2506.7
15°	2441.1	2457.5	2480.6	2495.5	2463.2
17.5°	2392.2	2408.0	2437.9	2440.6	2421.0
20°	2337.5	2357.1	2393.0	2399.3	2364.2
22.5°	2275.5	2301.9	2331.8	2337.8	2311.9
25°	2210.5	2237.7	2274.7	2283.1	2248.6
27.5°	2142.5	2168.6	2210.2	2216.2	2187.1
30°	2069.6	2094.1	2139.8	2149.8	2120.2
32.5°	1995.6	2020.1	2070.7	2079.1	2050.3
35°	1913.5	1943.4	1989.4	2003.2	1970.9
37.5°	1829.7	1858.8	1911.0	1923.5	1888.7
40°	1742.9	1771.8	1823.2	1833.5	1800.1
42.5°	1654.3	1683.1	1738.0	1739.7	1711.9
45°	1563.7	1591.4	1642.6	1643.9	1611.6
47.5°	1471.8	1499.8	1545.5	1540.3	1509.8
50°	1378.7	1405.4	1445.4	1435.0	1407.6
52.5°	1282.4	1308.3	1346.1	1329.2	1303.4
55°	1185.6	1209.6	1241.1	1223.2	1203.0
57.5°	1088.0	1112.2	1136.4	1118.2	1100.8
60°	989.5	1010.7	1030.6	1012.1	998.8
62.5°	889.4	907.6	924.8	907.1	894.6
65°	788.2	804.3	818.4	802.1	788.8
67.5°	687.6	701.2	714.3	697.4	683.5
70°	587.0	598.7	610.6	593.2	580.4
72.5°	487.7	498.0	508.6	491.8	480.6
75°	391.1	400.1	408.8	393.8	385.1
77.5°	298.9	306.5	312.5	303.0	294.6
80°	213.2	219.0	222.5	218.7	210.8
82.5°	137.1	141.2	143.1	142.8	137.6
85°	74.5	75.9	79.4	80.2	77.5
87.5°	28.8	30.7	31.6	34.0	31.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)