

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: P489021

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-5LO-50-120-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: P489021  
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-24-2-INS-A12125-LD4-5LO-50-120-EDD  
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

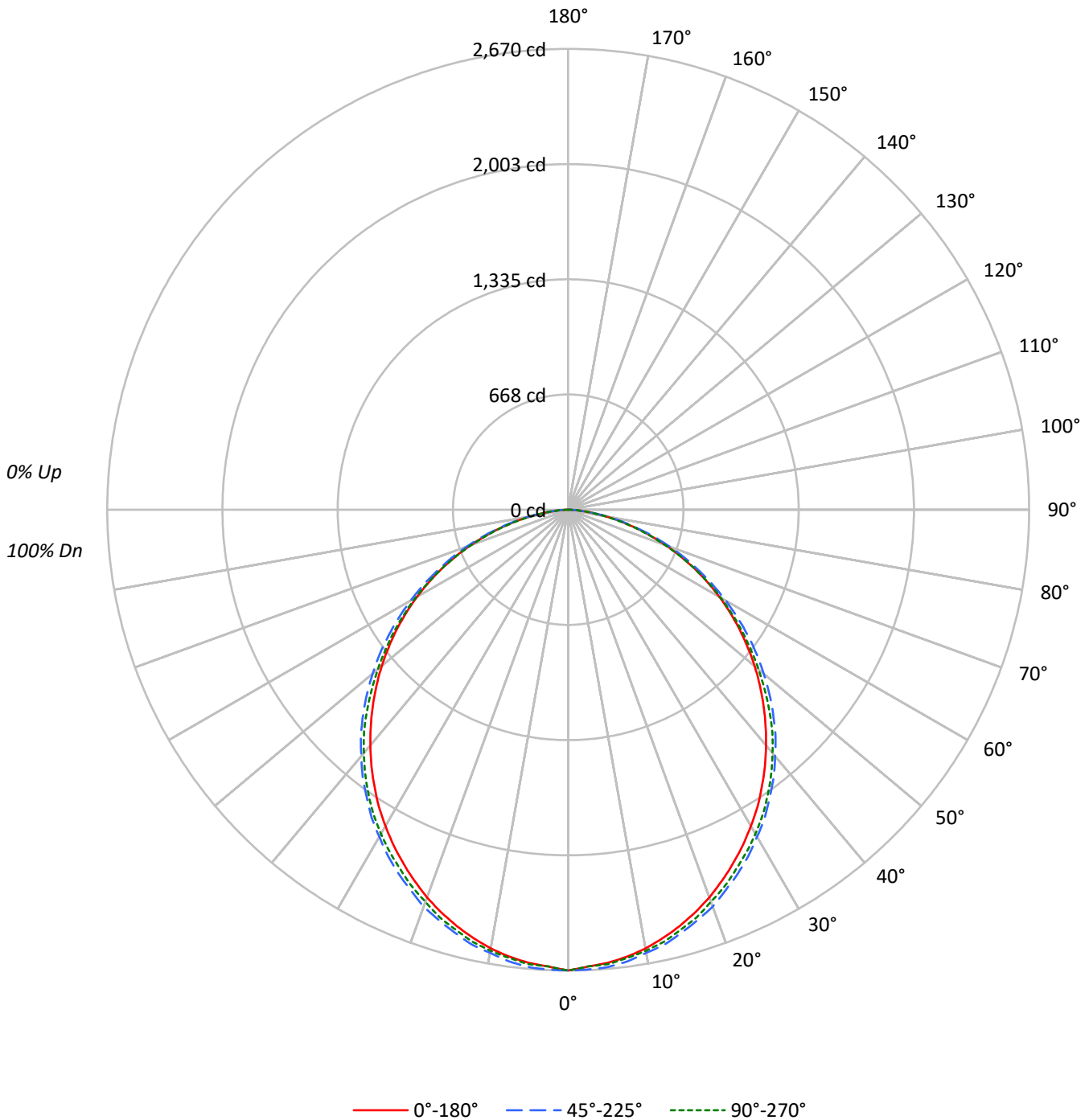
Lumens per Lamp: N/A  
Luminaire Lumens: 7019.1 lumens  
Efficiency: N/A  
Efficacy: 120.0 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 58.5  
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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CATALOG NUMBER: CLM-24-2-INS-A12125-LD4-5LO-50-120-EDD

### 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°	7184	7184	7184
5°	7118	7185	7141
10°	7053	7124	7090
15°	6955	7068	7018
20°	6846	7008	6924
25°	6712	6907	6828
30°	6577	6800	6738
35°	6429	6683	6621
40°	6262	6550	6467
45°	6086	6393	6272
50°	5903	6188	6026
55°	5689	5955	5772
60°	5447	5673	5497
65°	5133	5330	5137
70°	4723	4914	4670
75°	4159	4347	4095
80°	3380	3526	3341
85°	2353	2507	2448



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	251.4	3.6
10°-20°	712.5	10.2
20°-30°	1062.7	15.1
30°-40°	1259.3	17.9
40°-50°	1274.2	18.2
50°-60°	1112.9	15.9
60°-70°	813.2	11.6
70°-80°	432.7	6.2
80°-90°	100.0	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°	2026.7	28.9
0°-40°	3286.0	46.8
0°-60°	5673.2	80.8
0°-90°	7019.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7019.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2670	2670	2670	2670	2670	
5°	2635	2640	2660	2666	2643	250
15°	2496	2513	2537	2552	2519	704
25°	2261	2288	2326	2335	2300	1041
35°	1957	1988	2034	2049	2016	1224
45°	1599	1628	1680	1681	1648	1234
55°	1212	1237	1269	1251	1230	1084
65°	806	822	837	820	807	798
75°	400	409	418	403	394	425
85°	76	78	81	82	79	97
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2669.8	2669.8	2669.8	2669.8	2669.8
2.5°	2649.0	2657.6	2666.5	2670.4	2648.7
5°	2635.0	2640.1	2659.8	2665.9	2643.4
7.5°	2612.2	2619.7	2638.9	2641.7	2620.0
10°	2581.1	2594.4	2607.2	2621.1	2594.7
12.5°	2541.3	2559.4	2581.1	2583.6	2563.6
15°	2496.5	2513.2	2536.9	2552.2	2519.1
17.5°	2446.5	2462.6	2493.2	2496.0	2475.9
20°	2390.5	2410.6	2447.3	2453.7	2417.8
22.5°	2327.1	2354.1	2384.7	2390.8	2364.4
25°	2260.6	2288.5	2326.3	2334.9	2299.6
27.5°	2191.1	2217.8	2260.4	2266.5	2236.7
30°	2116.5	2141.6	2188.3	2198.6	2168.3
32.5°	2040.9	2065.9	2117.7	2126.3	2096.8
35°	1956.9	1987.5	2034.5	2048.7	2015.6
37.5°	1871.2	1901.0	1954.4	1967.2	1931.6
40°	1782.5	1812.0	1864.5	1875.1	1840.9
42.5°	1691.8	1721.3	1777.5	1779.1	1750.8
45°	1599.2	1627.5	1679.8	1681.2	1648.1
47.5°	1505.1	1533.8	1580.5	1575.2	1544.1
50°	1410.0	1437.3	1478.2	1467.6	1439.5
52.5°	1311.5	1338.0	1376.6	1359.4	1333.0
55°	1212.5	1237.0	1269.3	1250.9	1230.3
57.5°	1112.7	1137.4	1162.2	1143.5	1125.7
60°	1012.0	1033.7	1054.0	1035.0	1021.4
62.5°	909.6	928.2	945.8	927.7	914.9
65°	806.1	822.5	837.0	820.3	806.7
67.5°	703.2	717.1	730.5	713.2	699.0
70°	600.3	612.2	624.5	606.7	593.6
72.5°	498.7	509.3	520.2	502.9	491.5
75°	400.0	409.2	418.1	402.8	393.9
77.5°	305.7	313.5	319.6	309.9	301.3
80°	218.1	223.9	227.5	223.6	215.6
82.5°	140.2	144.4	146.3	146.0	140.8
85°	76.2	77.6	81.2	82.1	79.3
87.5°	29.5	31.4	32.3	34.8	32.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)