

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: P489852

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-3STD-27-120-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: P489852  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P387254)  
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-P12125-LD4-3STD-27-120-EDD-90  
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

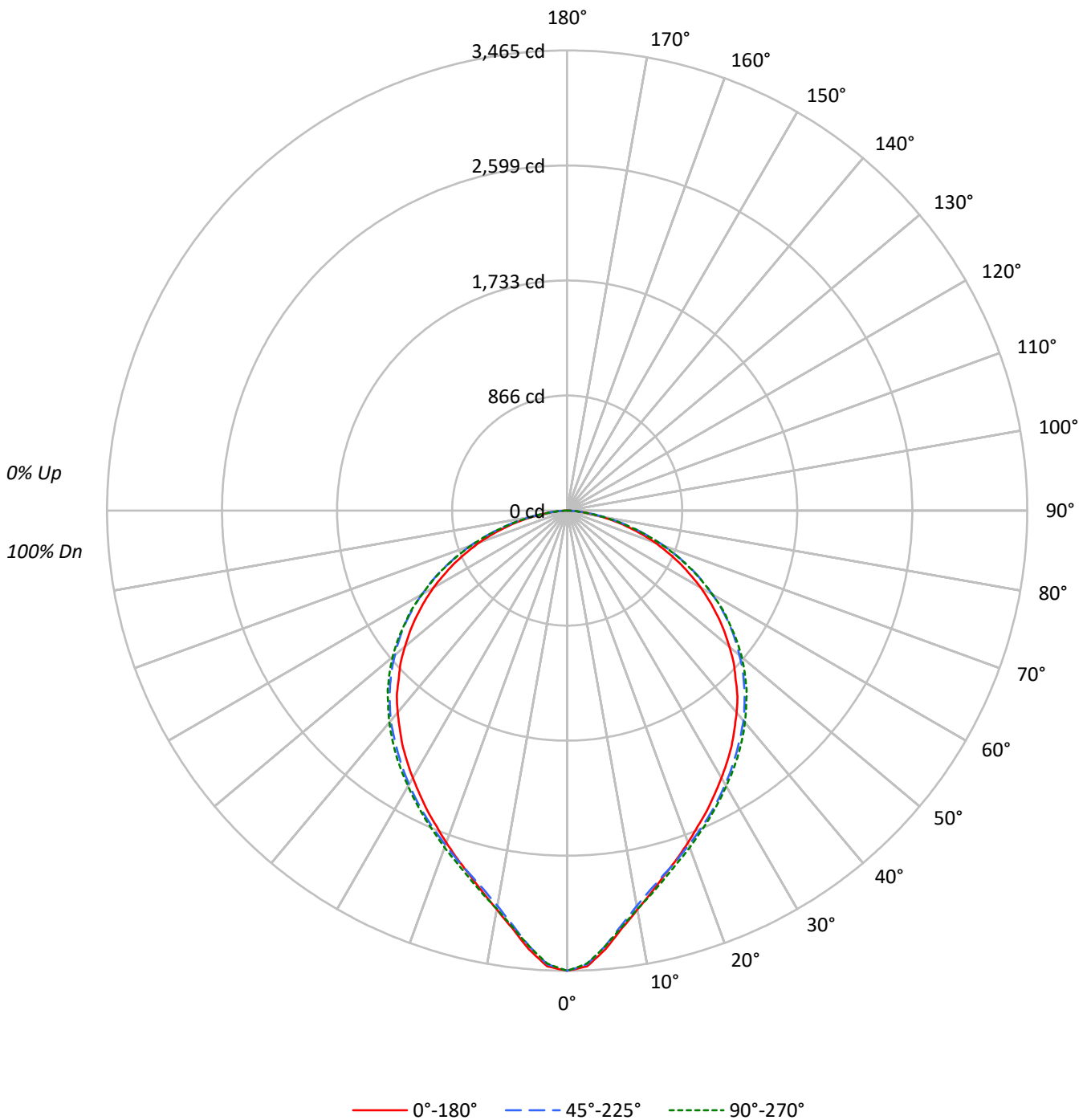
Lumens per Lamp: N/A  
Luminaire Lumens: 8049.0 lumens  
Efficiency: N/A  
Efficacy: 80.6 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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	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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	4662	4662	4662
5°	4477	4445	4445
10°	4167	4129	4161
15°	3954	3946	3985
20°	3809	3836	3866
25°	3700	3760	3782
30°	3611	3699	3722
35°	3548	3652	3689
40°	3486	3627	3658
45°	3414	3592	3635
50°	3338	3547	3594
55°	3246	3495	3510
60°	3129	3400	3393
65°	2966	3269	3247
70°	2769	3048	3011
75°	2444	2701	2674
80°	1986	2201	2093
85°	1377	1403	1349



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	306.2	3.8
10°-20°	802.0	10.0
20°-30°	1166.3	14.5
30°-40°	1387.9	17.2
40°-50°	1441.1	17.9
50°-60°	1305.6	16.2
60°-70°	985.2	12.2
70°-80°	536.8	6.7
80°-90°	117.9	1.5
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°	2274.5	28.3
0°-40°	3662.4	45.5
0°-60°	6409.1	79.6
0°-90°	8049.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8049.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3465	3465	3465	3465	3465	
5°	3315	3307	3291	3290	3291	308
15°	2838	2831	2833	2852	2861	801
25°	2492	2513	2533	2553	2547	1148
35°	2160	2186	2224	2257	2246	1351
45°	1794	1826	1888	1908	1910	1387
55°	1384	1416	1490	1501	1496	1235
65°	932	958	1027	1025	1020	921
75°	470	489	520	523	514	501
85°	89	90	91	90	87	113
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3465.2	3465.2	3465.2	3465.2	3465.2
2.5°	3434.9	3431.4	3420.2	3415.8	3415.0
5°	3314.6	3306.8	3291.2	3289.5	3291.2
7.5°	3170.8	3162.1	3146.6	3152.6	3160.4
10°	3049.6	3028.0	3021.8	3030.5	3045.3
12.5°	2941.3	2924.0	2918.8	2941.3	2951.8
15°	2838.3	2831.4	2833.1	2852.2	2860.8
17.5°	2749.2	2744.8	2756.1	2770.8	2775.1
20°	2660.0	2668.6	2679.0	2694.6	2699.8
22.5°	2572.5	2588.9	2606.3	2627.1	2620.1
25°	2492.0	2512.7	2532.7	2553.4	2547.4
27.5°	2406.2	2430.5	2458.2	2480.7	2472.0
30°	2324.0	2354.3	2381.1	2408.8	2395.9
32.5°	2242.6	2271.2	2303.2	2337.0	2322.3
35°	2160.3	2186.3	2223.6	2257.4	2246.1
37.5°	2069.4	2101.5	2143.9	2173.3	2165.6
40°	1984.6	2014.0	2065.1	2084.2	2082.4
42.5°	1898.8	1923.1	1976.8	1998.4	1995.0
45°	1794.1	1826.1	1887.6	1908.4	1910.1
47.5°	1701.4	1728.3	1794.1	1810.5	1814.0
50°	1594.9	1628.7	1694.5	1714.4	1717.0
52.5°	1490.1	1526.5	1594.1	1607.9	1610.5
55°	1383.6	1416.5	1490.1	1500.6	1496.2
57.5°	1272.0	1311.8	1379.4	1384.5	1388.9
60°	1162.8	1197.5	1263.3	1270.2	1260.7
62.5°	1044.3	1079.7	1147.3	1149.0	1141.2
65°	931.6	958.5	1026.9	1025.2	1020.0
67.5°	813.9	846.8	897.1	898.7	894.5
70°	703.9	726.4	774.9	775.8	765.5
72.5°	585.4	609.6	648.5	643.3	640.8
75°	470.2	489.2	519.6	523.0	514.3
77.5°	364.5	378.4	400.9	398.3	388.8
80°	256.3	267.5	284.0	280.6	270.1
82.5°	163.6	170.6	181.0	176.6	172.3
85°	89.2	90.0	90.9	90.0	87.4
87.5°	32.9	33.8	33.8	32.9	30.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)