

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: P489516

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-4LO-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: P489516  
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-LD4-4LO-27-120-EDD-90  
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

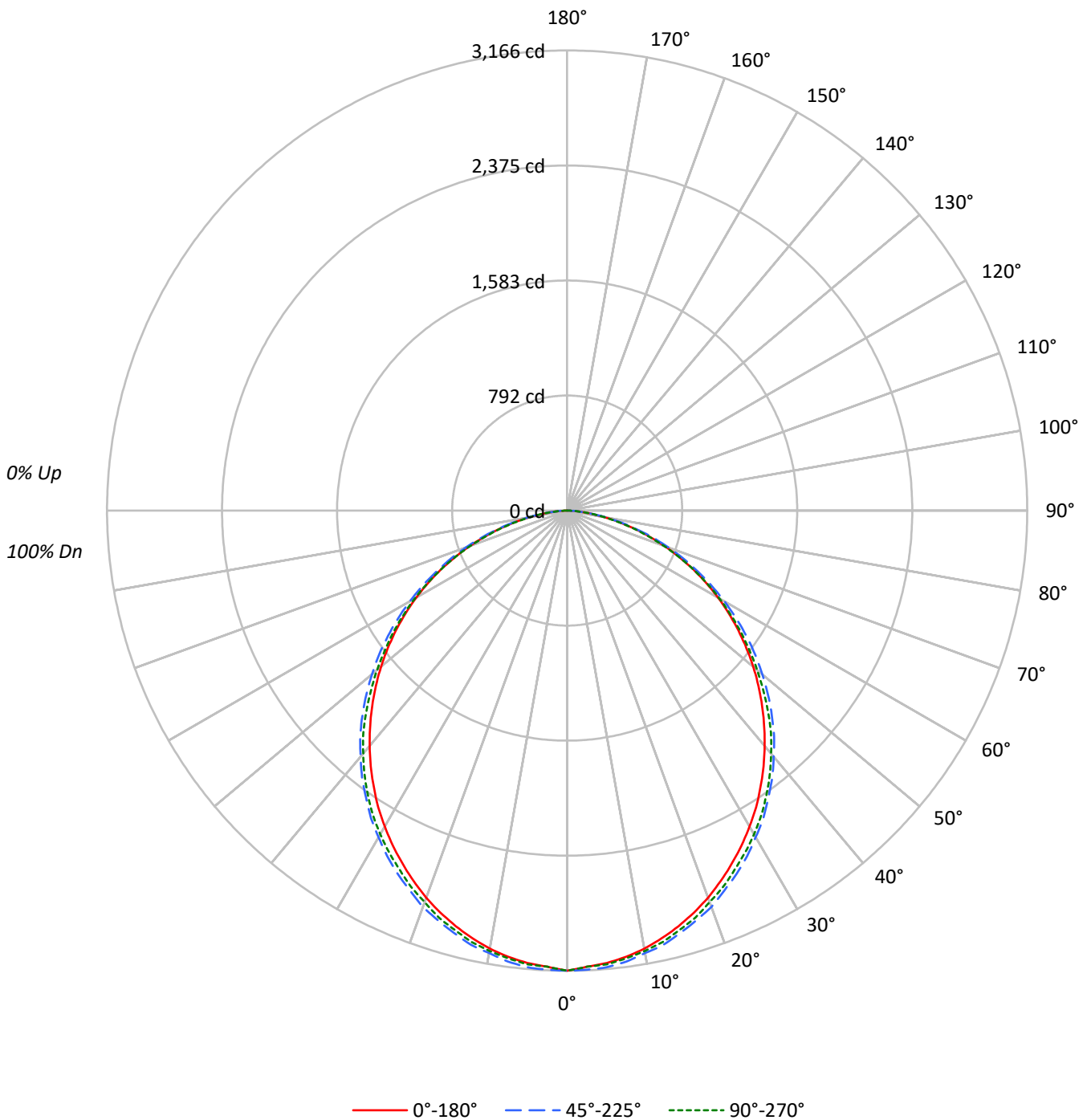
Lumens per Lamp: N/A  
Luminaire Lumens: 8323.4 lumens  
Efficiency: N/A  
Efficacy: 88.9 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 93.6  
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°	4260	4260	4260
5°	4220	4260	4234
10°	4182	4224	4204
15°	4124	4190	4161
20°	4059	4155	4105
25°	3980	4095	4048
30°	3899	4032	3995
35°	3812	3963	3926
40°	3713	3883	3834
45°	3608	3790	3719
50°	3500	3669	3573
55°	3373	3531	3422
60°	3229	3363	3259
65°	3043	3160	3046
70°	2800	2913	2769
75°	2466	2577	2428
80°	2004	2091	1980
85°	1396	1487	1451



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	298.2	3.6
10°-20°	844.9	10.2
20°-30°	1260.2	15.1
30°-40°	1493.3	17.9
40°-50°	1511.0	18.2
50°-60°	1319.7	15.9
60°-70°	964.4	11.6
70°-80°	513.1	6.2
80°-90°	118.6	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°	2403.3	28.9
0°-40°	3896.6	46.8
0°-60°	6727.3	80.8
0°-90°	8323.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8323.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3166	3166	3166	3166	3166	
5°	3125	3131	3154	3161	3135	296
15°	2960	2980	3008	3026	2987	835
25°	2681	2714	2759	2769	2727	1235
35°	2320	2357	2412	2429	2390	1451
45°	1896	1930	1992	1994	1954	1463
55°	1438	1467	1505	1483	1459	1285
65°	956	975	992	973	957	946
75°	474	485	496	478	467	504
85°	90	92	96	97	94	114
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3165.9	3165.9	3165.9	3165.9	3165.9
2.5°	3141.2	3151.4	3162.0	3166.6	3140.9
5°	3124.7	3130.6	3154.1	3161.3	3134.6
7.5°	3097.6	3106.6	3129.3	3132.6	3106.9
10°	3060.7	3076.5	3091.7	3108.2	3076.9
12.5°	3013.5	3035.0	3060.7	3063.7	3039.9
15°	2960.4	2980.2	3008.3	3026.4	2987.1
17.5°	2901.1	2920.2	2956.5	2959.8	2936.0
20°	2834.8	2858.5	2902.0	2909.6	2867.1
22.5°	2759.5	2791.5	2827.8	2835.1	2803.7
25°	2680.7	2713.7	2758.6	2768.8	2726.9
27.5°	2598.2	2629.9	2680.4	2687.6	2652.3
30°	2509.8	2539.5	2595.0	2607.2	2571.2
32.5°	2420.1	2449.8	2511.2	2521.4	2486.4
35°	2320.5	2356.8	2412.5	2429.4	2390.1
37.5°	2218.9	2254.2	2317.5	2332.7	2290.5
40°	2113.7	2148.7	2211.0	2223.5	2183.0
42.5°	2006.2	2041.1	2107.8	2109.7	2076.1
45°	1896.3	1930.0	1992.0	1993.6	1954.4
47.5°	1784.8	1818.8	1874.2	1868.0	1831.0
50°	1672.0	1704.3	1752.8	1740.3	1707.0
52.5°	1555.3	1586.6	1632.4	1612.0	1580.7
55°	1437.8	1466.9	1505.1	1483.3	1458.9
57.5°	1319.4	1348.8	1378.1	1356.0	1334.9
60°	1200.0	1225.7	1249.8	1227.4	1211.2
62.5°	1078.6	1100.7	1121.5	1100.1	1084.9
65°	955.9	975.4	992.5	972.7	956.6
67.5°	833.9	850.4	866.2	845.7	828.9
70°	711.8	726.0	740.5	719.4	703.9
72.5°	591.4	604.0	616.8	596.4	582.8
75°	474.3	485.2	495.8	477.6	467.1
77.5°	362.5	371.7	379.0	367.5	357.2
80°	258.6	265.5	269.8	265.2	255.6
82.5°	166.2	171.2	173.5	173.2	166.9
85°	90.4	92.0	96.3	97.3	94.0
87.5°	35.0	37.3	38.3	41.2	37.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)