

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: P489500

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-3STD-50-120-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: P489500  
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-LD4-3STD-50-120-EDD-90  
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

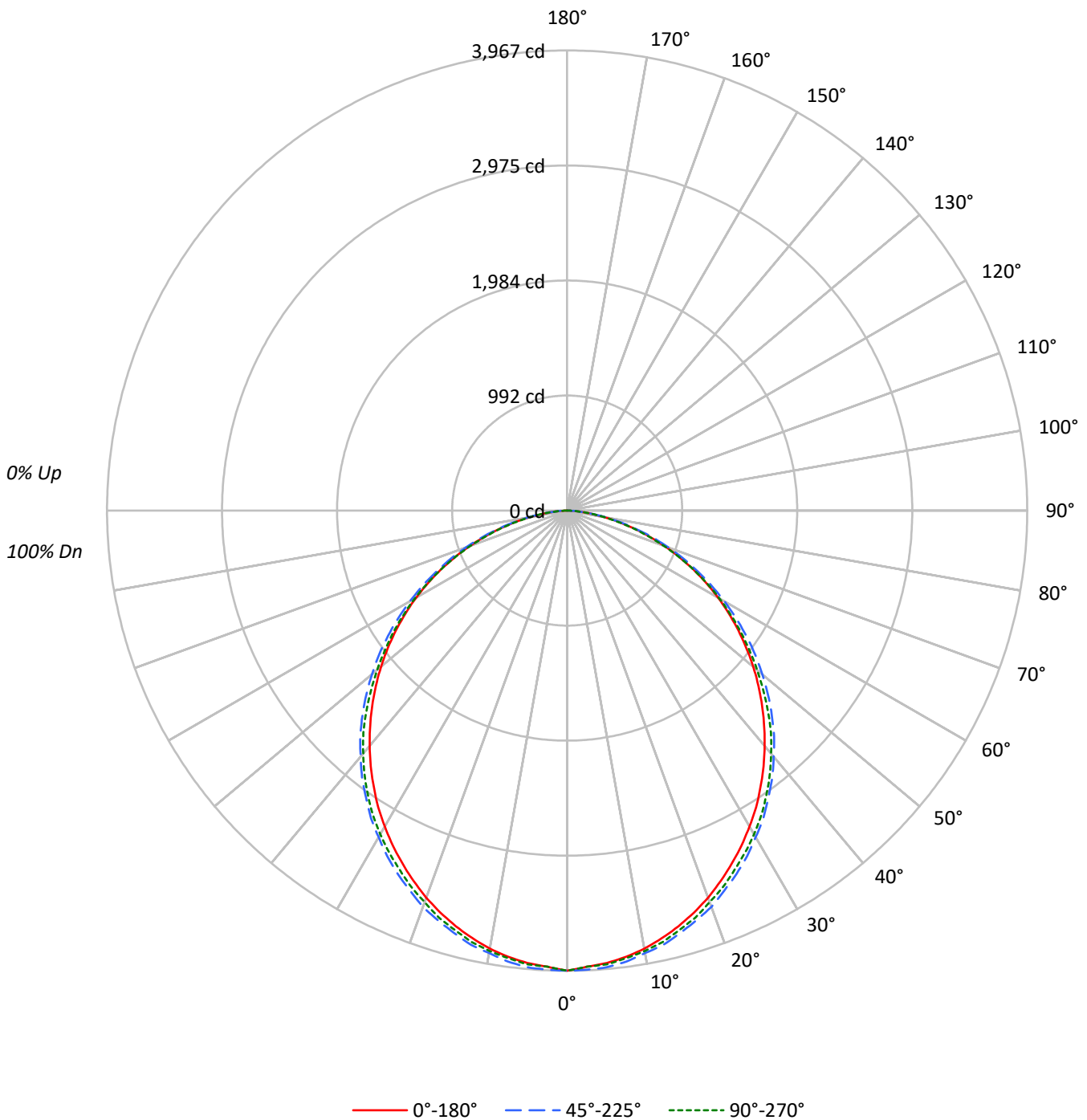
Lumens per Lamp: N/A  
Luminaire Lumens: 10428.6 lumens  
Efficiency: N/A  
Efficacy: 104.4 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 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	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°	5337	5337	5337
5°	5288	5337	5304
10°	5239	5292	5267
15°	5167	5250	5213
20°	5085	5206	5143
25°	4986	5131	5072
30°	4886	5051	5005
35°	4776	4965	4919
40°	4652	4866	4804
45°	4521	4749	4659
50°	4385	4597	4477
55°	4226	4424	4288
60°	4046	4214	4084
65°	3813	3959	3816
70°	3509	3650	3469
75°	3090	3229	3042
80°	2510	2620	2482
85°	1748	1863	1819



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	373.6	3.6
10°-20°	1058.7	10.2
20°-30°	1578.9	15.1
30°-40°	1871.0	17.9
40°-50°	1893.2	18.2
50°-60°	1653.4	15.9
60°-70°	1208.3	11.6
70°-80°	642.9	6.2
80°-90°	148.6	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°	3011.2	28.9
0°-40°	4882.2	46.8
0°-60°	8428.8	80.8
0°-90°	10428.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10428.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3967	3967	3967	3967	3967	
5°	3915	3922	3952	3961	3927	371
15°	3709	3734	3769	3792	3743	1046
25°	3359	3400	3456	3469	3417	1547
35°	2907	2953	3023	3044	2995	1818
45°	2376	2418	2496	2498	2449	1833
55°	1802	1838	1886	1858	1828	1610
65°	1198	1222	1244	1219	1198	1185
75°	594	608	621	598	585	632
85°	113	115	121	122	118	143
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3966.7	3966.7	3966.7	3966.7	3966.7
2.5°	3935.7	3948.5	3961.7	3967.5	3935.3
5°	3915.0	3922.4	3951.8	3960.9	3927.4
7.5°	3881.1	3892.3	3920.8	3924.9	3892.7
10°	3834.8	3854.7	3873.7	3894.3	3855.1
12.5°	3775.7	3802.6	3834.8	3838.6	3808.8
15°	3709.2	3734.0	3769.1	3791.9	3742.7
17.5°	3634.8	3658.8	3704.2	3708.4	3678.6
20°	3551.7	3581.5	3636.0	3645.5	3592.2
22.5°	3457.5	3497.6	3543.1	3552.1	3512.9
25°	3358.7	3400.1	3456.3	3469.1	3416.6
27.5°	3255.4	3295.1	3358.3	3367.4	3323.2
30°	3144.7	3181.8	3251.3	3266.6	3221.5
32.5°	3032.2	3069.4	3146.3	3159.1	3115.3
35°	2907.4	2952.9	3022.7	3043.8	2994.6
37.5°	2780.1	2824.4	2903.7	2922.7	2869.8
40°	2648.3	2692.1	2770.2	2785.9	2735.1
42.5°	2513.6	2557.4	2640.9	2643.3	2601.2
45°	2376.0	2418.1	2495.8	2497.9	2448.7
47.5°	2236.3	2278.8	2348.3	2340.4	2294.1
50°	2094.9	2135.4	2196.2	2180.5	2138.7
52.5°	1948.6	1987.9	2045.3	2019.7	1980.4
55°	1801.5	1837.9	1885.8	1858.5	1827.9
57.5°	1653.1	1689.9	1726.7	1699.0	1672.5
60°	1503.5	1535.8	1565.9	1537.8	1517.6
62.5°	1351.4	1379.1	1405.2	1378.3	1359.3
65°	1197.7	1222.1	1243.6	1218.8	1198.5
67.5°	1044.8	1065.4	1085.3	1059.7	1038.6
70°	891.9	909.6	927.8	901.4	881.9
72.5°	741.0	756.7	772.8	747.2	730.3
75°	594.3	607.9	621.2	598.4	585.2
77.5°	454.2	465.8	474.9	460.4	447.6
80°	324.0	332.7	338.1	332.3	320.3
82.5°	208.3	214.5	217.4	217.0	209.1
85°	113.2	115.3	120.7	121.9	117.8
87.5°	43.8	46.7	47.9	51.7	47.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)