

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: P489030

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-5STD-40-120-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: P489030  
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-LD4-5STD-40-120-EDD-90  
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

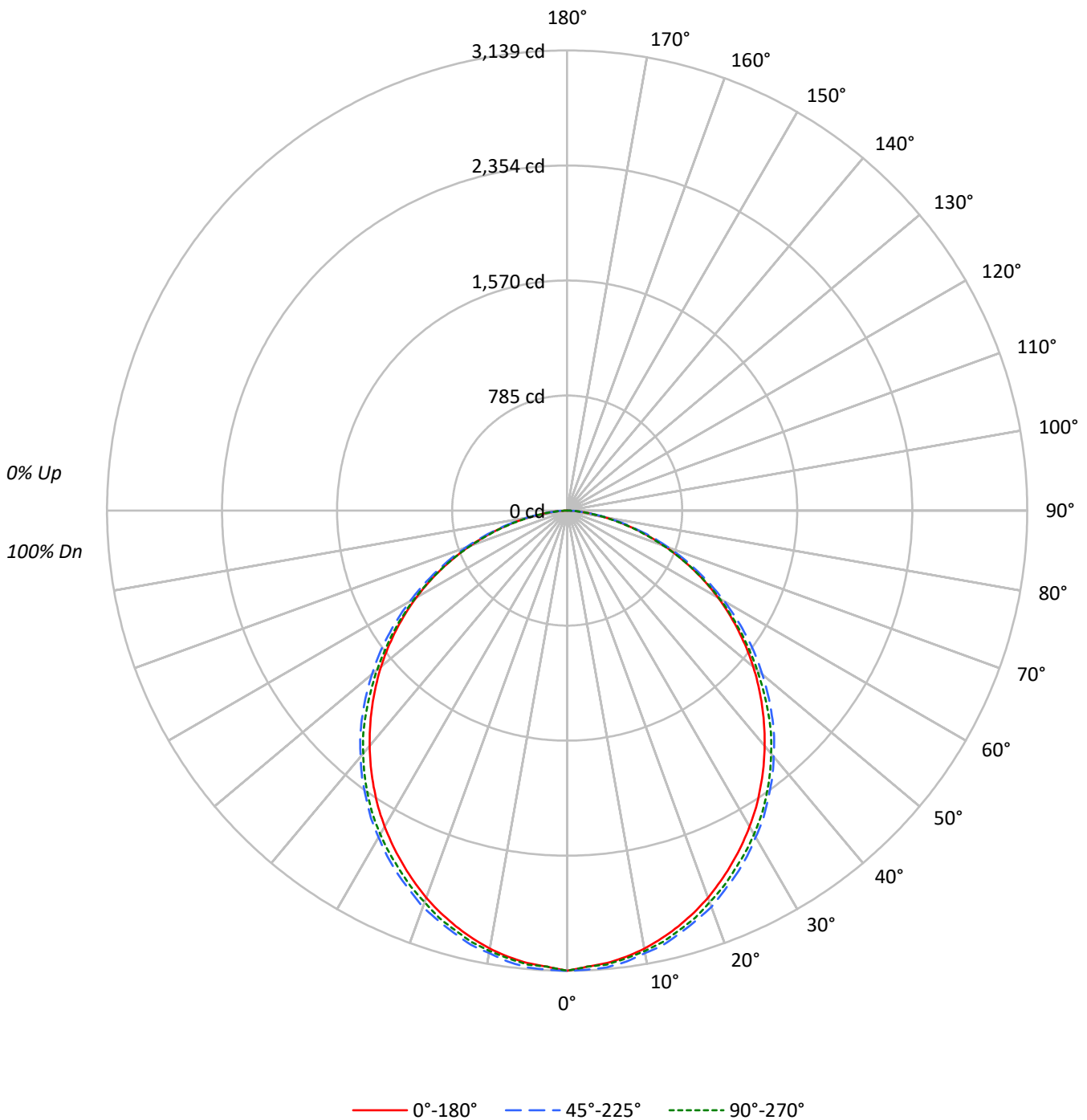
Lumens per Lamp: N/A  
Luminaire Lumens: 8252.8 lumens  
Efficiency: N/A  
Efficacy: 99.2 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 83.2  
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°	8447	8447	8447
5°	8369	8448	8396
10°	8292	8376	8336
15°	8177	8310	8251
20°	8049	8240	8141
25°	7892	8121	8028
30°	7733	7995	7922
35°	7558	7858	7785
40°	7362	7701	7603
45°	7155	7516	7375
50°	6940	7276	7086
55°	6688	7002	6787
60°	6403	6669	6463
65°	6035	6266	6039
70°	5553	5777	5491
75°	4890	5111	4815
80°	3973	4145	3928
85°	2766	2949	2878



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	295.6	3.6
10°-20°	837.8	10.2
20°-30°	1249.5	15.1
30°-40°	1480.7	17.9
40°-50°	1498.2	18.2
50°-60°	1308.5	15.9
60°-70°	956.2	11.6
70°-80°	508.8	6.2
80°-90°	117.6	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°	2382.9	28.9
0°-40°	3863.6	46.8
0°-60°	6670.3	80.8
0°-90°	8252.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8252.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3139	3139	3139	3139	3139	
5°	3098	3104	3127	3134	3108	294
15°	2935	2955	2983	3001	2962	828
25°	2658	2691	2735	2745	2704	1225
35°	2301	2337	2392	2409	2370	1439
45°	1880	1914	1975	1977	1938	1451
55°	1426	1454	1492	1471	1447	1274
65°	948	967	984	964	948	938
75°	470	481	492	474	463	500
85°	90	91	96	96	93	113
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3139.1	3139.1	3139.1	3139.1	3139.1
2.5°	3114.5	3124.7	3135.1	3139.7	3114.2
5°	3098.2	3104.1	3127.3	3134.5	3108.0
7.5°	3071.4	3080.2	3102.8	3106.0	3080.5
10°	3034.7	3050.4	3065.5	3081.8	3050.8
12.5°	2988.0	3009.2	3034.7	3037.7	3014.1
15°	2935.3	2954.9	2982.7	3000.7	2961.8
17.5°	2876.4	2895.4	2931.4	2934.7	2911.1
20°	2810.7	2834.3	2877.4	2884.9	2842.8
22.5°	2736.1	2767.9	2803.8	2811.0	2780.0
25°	2658.0	2690.7	2735.2	2745.3	2703.8
27.5°	2576.2	2607.6	2657.6	2664.8	2629.8
30°	2488.6	2518.0	2572.9	2585.0	2549.4
32.5°	2399.6	2429.0	2489.9	2500.0	2465.3
35°	2300.8	2336.8	2392.1	2408.8	2369.8
37.5°	2200.1	2235.1	2297.9	2312.9	2271.1
40°	2095.8	2130.4	2192.2	2204.7	2164.4
42.5°	1989.1	2023.8	2089.9	2091.8	2058.5
45°	1880.2	1913.6	1975.1	1976.7	1937.8
47.5°	1769.7	1803.4	1858.3	1852.1	1815.5
50°	1657.8	1689.9	1738.0	1725.5	1692.5
52.5°	1542.1	1573.1	1618.6	1598.3	1567.2
55°	1425.6	1454.4	1492.4	1470.8	1446.6
57.5°	1308.2	1337.3	1366.4	1344.5	1323.6
60°	1189.8	1215.3	1239.2	1217.0	1200.9
62.5°	1069.5	1091.4	1112.0	1090.7	1075.7
65°	947.8	967.1	984.1	964.5	948.5
67.5°	826.8	843.1	858.8	838.6	821.9
70°	705.8	719.8	734.2	713.3	697.9
72.5°	586.4	598.8	611.6	591.3	577.9
75°	470.3	481.1	491.6	473.6	463.1
77.5°	359.4	368.6	375.8	364.3	354.2
80°	256.4	263.3	267.5	263.0	253.5
82.5°	164.8	169.7	172.0	171.7	165.5
85°	89.6	91.2	95.5	96.5	93.2
87.5°	34.7	37.0	37.9	40.9	37.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)