

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: P488576

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-2HI-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: P488576  
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-12-4-INS-A12125-LD4-2HI-50-120-EDD-90  
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

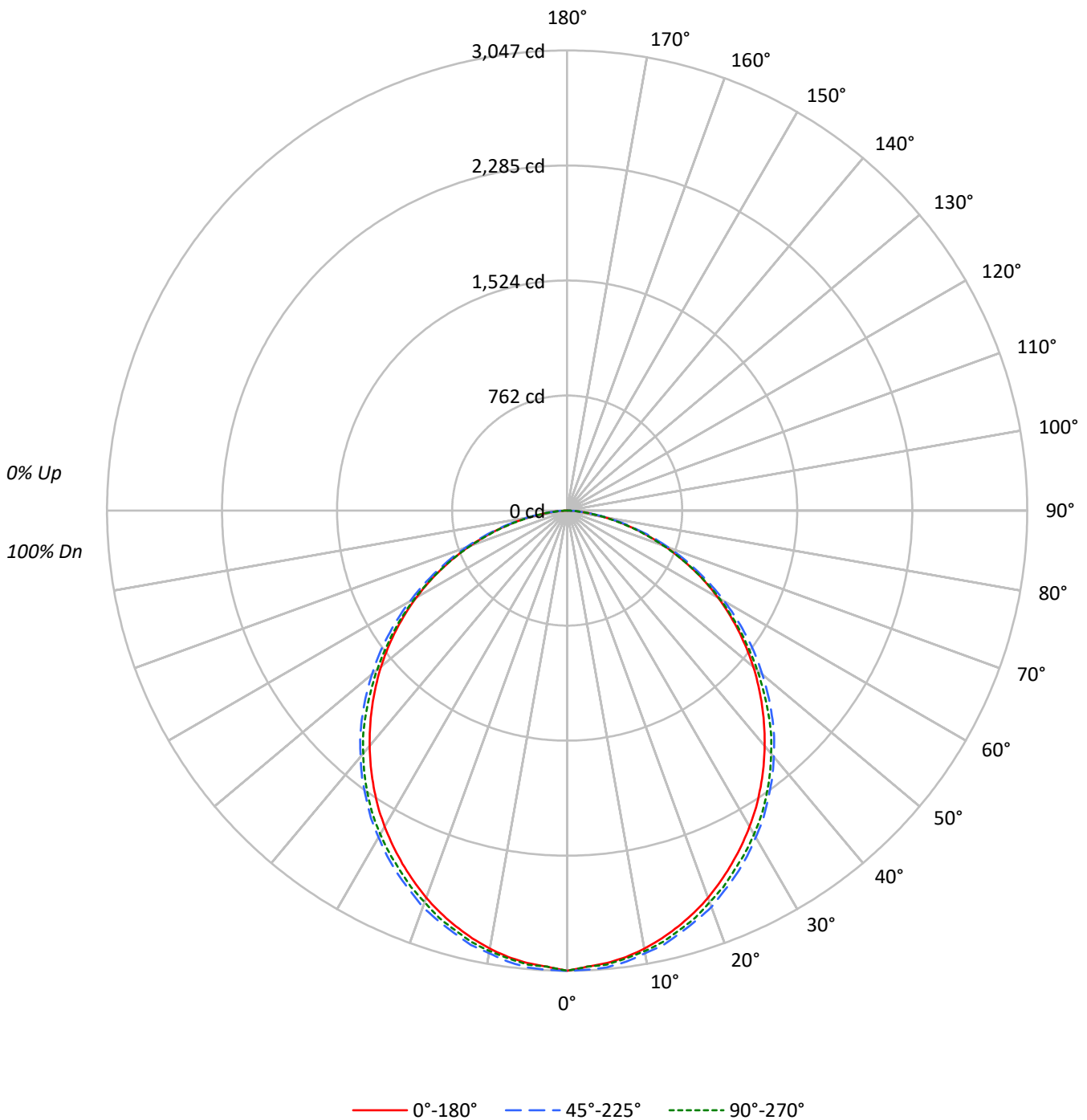
Lumens per Lamp: N/A  
Luminaire Lumens: 8011.5 lumens  
Efficiency: N/A  
Efficacy: 92.7 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 86.4  
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	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					100			
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85					85			
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71					71			
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60					60			
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51					51			
5	77	64	55	48	75	63	54	48	61	53	48	59	52	47	57	51	47	45					45			
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39					39			
7	66	52	44	38	64	51	43	37	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31					31			
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25					25			

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

	0°	45°	90°
0°	8200	8200	8200
5°	8124	8201	8150
10°	8050	8132	8093
15°	7938	8067	8010
20°	7814	7999	7903
25°	7661	7884	7793
30°	7507	7761	7690
35°	7338	7628	7557
40°	7147	7476	7381
45°	6946	7297	7159
50°	6738	7063	6878
55°	6493	6797	6588
60°	6216	6474	6274
65°	5859	6083	5862
70°	5390	5608	5330
75°	4747	4962	4675
80°	3857	4025	3814
85°	2686	2862	2794



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	287.0	3.6
10°-20°	813.3	10.2
20°-30°	1213.0	15.1
30°-40°	1437.4	17.9
40°-50°	1454.4	18.2
50°-60°	1270.2	15.9
60°-70°	928.2	11.6
70°-80°	493.9	6.2
80°-90°	114.2	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°	2313.2	28.9
0°-40°	3750.6	46.8
0°-60°	6475.2	80.8
0°-90°	8011.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8011.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3047	3047	3047	3047	3047	
5°	3008	3013	3036	3043	3017	285
15°	2850	2868	2896	2913	2875	803
25°	2580	2612	2655	2665	2625	1189
35°	2234	2268	2322	2338	2300	1397
45°	1825	1858	1917	1919	1881	1408
55°	1384	1412	1449	1428	1404	1237
65°	920	939	955	936	921	910
75°	457	467	477	460	450	485
85°	87	89	93	94	90	110
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3047.3	3047.3	3047.3	3047.3	3047.3
2.5°	3023.5	3033.3	3043.5	3047.9	3023.2
5°	3007.6	3013.3	3035.9	3042.8	3017.1
7.5°	2981.6	2990.1	3012.0	3015.2	2990.5
10°	2946.0	2961.2	2975.9	2991.7	2961.6
12.5°	2900.6	2921.2	2946.0	2948.9	2926.0
15°	2849.5	2868.5	2895.5	2913.0	2875.2
17.5°	2792.3	2810.8	2845.7	2848.9	2826.0
20°	2728.5	2751.4	2793.3	2800.6	2759.6
22.5°	2656.1	2686.9	2721.9	2728.8	2698.7
25°	2580.3	2612.0	2655.2	2665.0	2624.7
27.5°	2500.9	2531.4	2579.9	2586.9	2553.0
30°	2415.8	2444.4	2497.7	2509.5	2474.9
32.5°	2329.4	2358.0	2417.1	2426.9	2393.3
35°	2233.6	2268.5	2322.1	2338.3	2300.5
37.5°	2135.8	2169.7	2230.7	2245.3	2204.7
40°	2034.5	2068.1	2128.1	2140.2	2101.2
42.5°	1931.0	1964.6	2028.8	2030.7	1998.3
45°	1825.3	1857.6	1917.3	1918.9	1881.1
47.5°	1717.9	1750.7	1804.0	1798.0	1762.4
50°	1609.4	1640.5	1687.2	1675.1	1643.0
52.5°	1497.0	1527.1	1571.3	1551.6	1521.4
55°	1383.9	1411.9	1448.7	1427.8	1404.3
57.5°	1270.0	1298.2	1326.5	1305.2	1284.9
60°	1155.0	1179.8	1203.0	1181.4	1165.8
62.5°	1038.2	1059.5	1079.5	1058.8	1044.2
65°	920.1	938.8	955.3	936.3	920.7
67.5°	802.6	818.5	833.7	814.0	797.9
70°	685.1	698.8	712.8	692.5	677.5
72.5°	569.3	581.3	593.7	574.0	561.0
75°	456.6	467.0	477.2	459.7	449.6
77.5°	348.9	357.8	364.8	353.7	343.8
80°	248.9	255.6	259.7	255.3	246.1
82.5°	160.0	164.8	167.0	166.7	160.7
85°	87.0	88.6	92.7	93.7	90.5
87.5°	33.7	35.9	36.8	39.7	36.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)