

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: P489497

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-3STD-35-120-EDD**

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: P489497  
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-35-120-EDD  
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

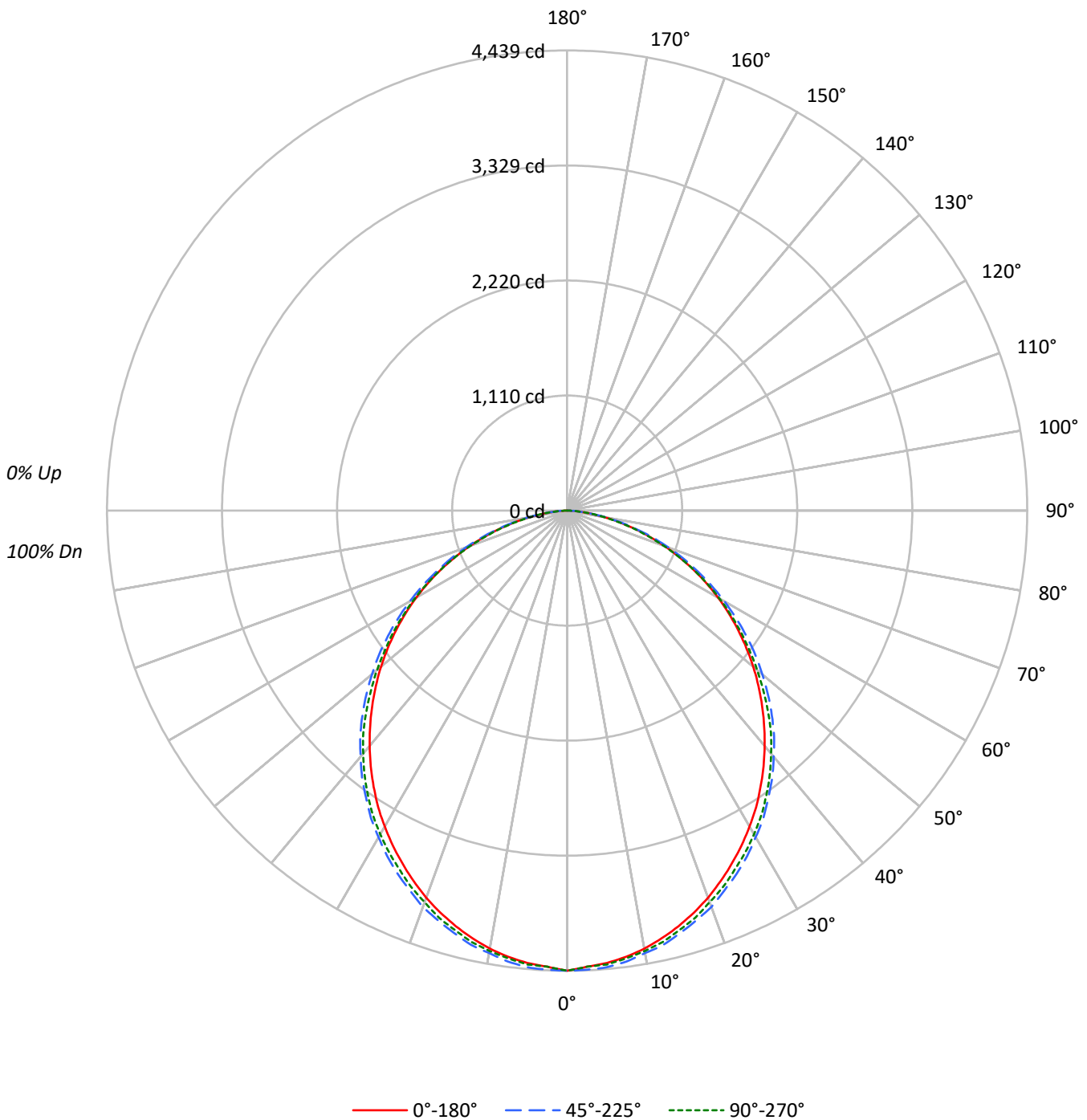
Lumens per Lamp: N/A  
Luminaire Lumens: 11670.3 lumens  
Efficiency: N/A  
Efficacy: 116.8 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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	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°	5973	5973	5973
5°	5917	5973	5936
10°	5863	5923	5894
15°	5782	5875	5834
20°	5691	5826	5756
25°	5580	5742	5676
30°	5467	5653	5601
35°	5344	5556	5504
40°	5205	5445	5376
45°	5059	5315	5214
50°	4907	5144	5010
55°	4729	4950	4799
60°	4528	4716	4570
65°	4267	4430	4270
70°	3926	4085	3883
75°	3458	3614	3405
80°	2810	2931	2777
85°	1956	2084	2035



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	418.1	3.6
10°-20°	1184.7	10.2
20°-30°	1766.9	15.1
30°-40°	2093.8	17.9
40°-50°	2118.6	18.2
50°-60°	1850.3	15.9
60°-70°	1352.1	11.6
70°-80°	719.4	6.2
80°-90°	166.3	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
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0°-30°	3369.7	28.9
0°-40°	5463.5	46.8
0°-60°	9432.5	80.8
0°-90°	11670.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11670.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4439	4439	4439	4439	4439	
5°	4381	4390	4422	4432	4395	415
15°	4151	4179	4218	4243	4188	1170
25°	3759	3805	3868	3882	3823	1732
35°	3254	3304	3383	3406	3351	2035
45°	2659	2706	2793	2795	2740	2051
55°	2016	2057	2110	2080	2046	1802
65°	1340	1368	1392	1364	1341	1326
75°	665	680	695	670	655	707
85°	127	129	135	136	132	160
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4439.0	4439.0	4439.0	4439.0	4439.0
2.5°	4404.3	4418.6	4433.4	4439.9	4403.8
5°	4381.2	4389.5	4422.3	4432.5	4395.0
7.5°	4343.2	4355.7	4387.6	4392.3	4356.2
10°	4291.4	4313.6	4334.9	4358.0	4314.1
12.5°	4225.3	4255.4	4291.4	4295.6	4262.3
15°	4150.8	4178.6	4217.9	4243.3	4188.3
17.5°	4067.6	4094.4	4145.3	4149.9	4116.6
20°	3974.6	4007.9	4069.0	4079.6	4020.0
22.5°	3869.2	3914.0	3964.9	3975.1	3931.2
25°	3758.6	3804.9	3867.8	3882.1	3823.4
27.5°	3643.0	3687.4	3758.2	3768.4	3718.9
30°	3519.1	3560.7	3638.4	3655.5	3605.1
32.5°	3393.3	3434.9	3520.9	3535.3	3486.2
35°	3253.6	3304.5	3382.6	3406.2	3351.2
37.5°	3111.2	3160.6	3249.4	3270.7	3211.5
40°	2963.6	3012.7	3100.1	3117.6	3060.8
42.5°	2812.9	2861.9	2955.3	2958.1	2910.9
45°	2658.8	2706.0	2793.0	2795.3	2740.2
47.5°	2502.5	2550.2	2627.9	2619.1	2567.3
50°	2344.4	2389.7	2457.7	2440.1	2393.4
52.5°	2180.6	2224.6	2288.9	2260.2	2216.2
55°	2016.0	2056.7	2110.3	2079.8	2045.6
57.5°	1850.0	1891.1	1932.3	1901.3	1871.7
60°	1682.5	1718.6	1752.4	1720.9	1698.3
62.5°	1512.3	1543.3	1572.5	1542.4	1521.1
65°	1340.3	1367.6	1391.6	1363.9	1341.2
67.5°	1169.2	1192.3	1214.5	1185.8	1162.2
70°	998.1	1017.9	1038.3	1008.7	987.0
72.5°	829.2	846.8	864.9	836.2	817.2
75°	665.1	680.3	695.1	669.7	654.9
77.5°	508.3	521.2	531.4	515.2	500.9
80°	362.6	372.3	378.3	371.8	358.4
82.5°	233.1	240.0	243.3	242.8	234.0
85°	126.7	129.0	135.0	136.4	131.8
87.5°	49.0	52.3	53.6	57.8	53.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)