

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: P489528

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-4STD-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: P489528  
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-LD4-4STD-27-120-EDD-90  
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

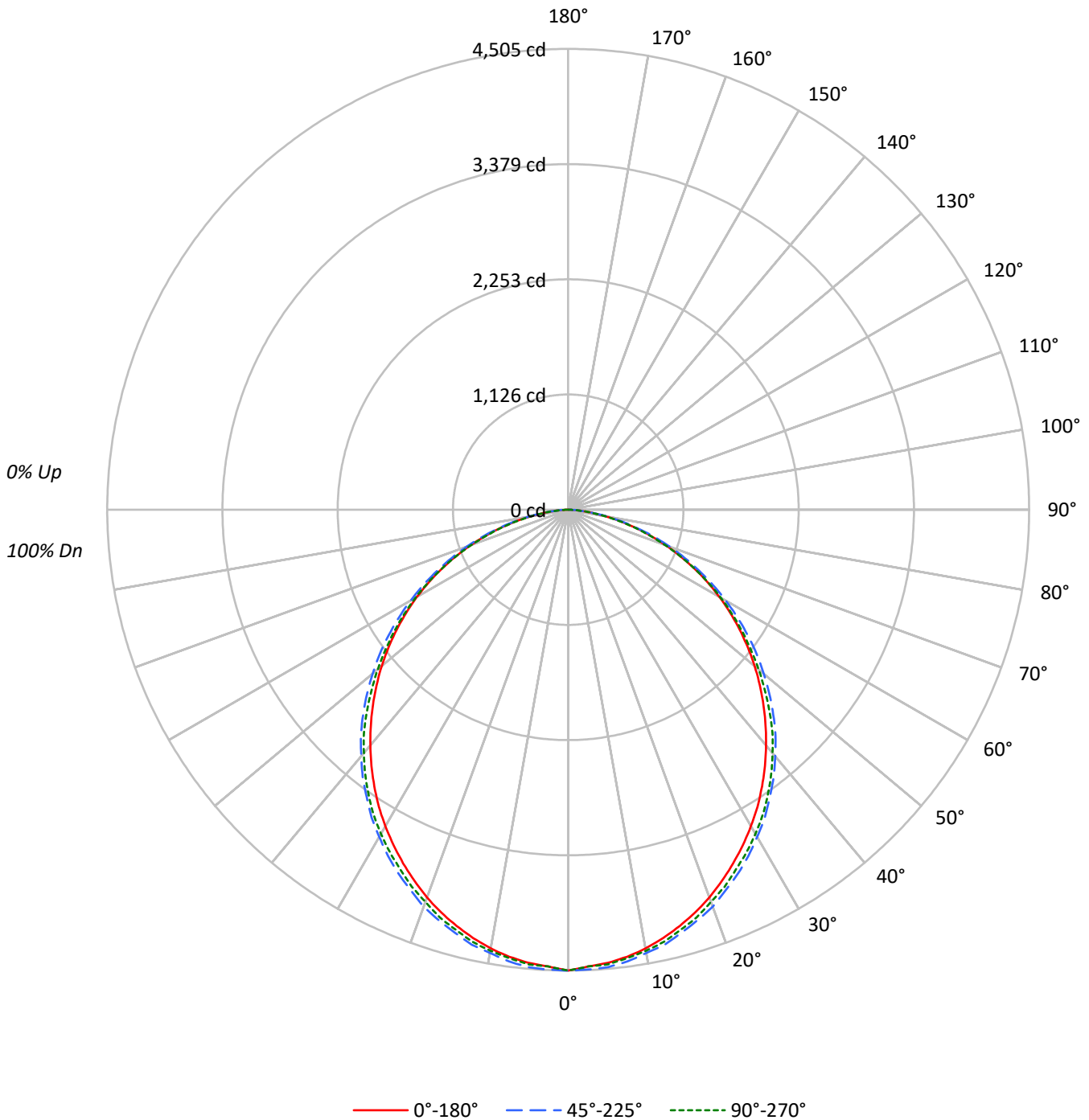
Lumens per Lamp: N/A  
Luminaire Lumens: 11844.9 lumens  
Efficiency: N/A  
Efficacy: 88.9 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 133.2  
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°	6062	6062	6062
5°	6006	6062	6025
10°	5951	6011	5982
15°	5868	5963	5921
20°	5776	5913	5842
25°	5664	5828	5761
30°	5549	5737	5685
35°	5424	5639	5587
40°	5283	5526	5456
45°	5135	5394	5292
50°	4981	5221	5085
55°	4800	5024	4870
60°	4595	4786	4638
65°	4331	4497	4334
70°	3985	4146	3941
75°	3509	3668	3455
80°	2851	2975	2819
85°	1985	2117	2066



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	424.3	3.6
10°-20°	1202.4	10.2
20°-30°	1793.4	15.1
30°-40°	2125.2	17.9
40°-50°	2150.3	18.2
50°-60°	1878.0	15.9
60°-70°	1372.4	11.6
70°-80°	730.2	6.2
80°-90°	168.8	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°	3420.1	28.9
0°-40°	5545.3	46.8
0°-60°	9573.6	80.8
0°-90°	11844.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11844.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4505	4505	4505	4505	4505	
5°	4447	4455	4488	4499	4461	422
15°	4213	4241	4281	4307	4251	1188
25°	3815	3862	3926	3940	3881	1758
35°	3302	3354	3433	3457	3401	2065
45°	2699	2746	2835	2837	2781	2082
55°	2046	2088	2142	2111	2076	1829
65°	1360	1388	1412	1384	1361	1346
75°	675	690	706	680	665	718
85°	129	131	137	138	134	163
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4505.4	4505.4	4505.4	4505.4	4505.4
2.5°	4470.2	4484.7	4499.7	4506.3	4469.7
5°	4446.7	4455.2	4488.5	4498.8	4460.8
7.5°	4408.2	4420.9	4453.3	4458.0	4421.4
10°	4355.6	4378.2	4399.8	4423.2	4378.6
12.5°	4288.5	4319.0	4355.6	4359.9	4326.1
15°	4212.9	4241.1	4281.0	4306.8	4251.0
17.5°	4128.4	4155.7	4207.3	4212.0	4178.2
20°	4034.1	4067.9	4129.9	4140.6	4080.1
22.5°	3927.1	3972.6	4024.2	4034.6	3990.0
25°	3814.9	3861.8	3925.7	3940.2	3880.6
27.5°	3697.5	3742.6	3814.4	3824.7	3774.5
30°	3571.7	3614.0	3692.8	3710.2	3659.0
32.5°	3444.0	3486.3	3573.6	3588.2	3538.4
35°	3302.3	3353.9	3433.3	3457.2	3401.3
37.5°	3157.7	3207.9	3298.1	3319.7	3259.6
40°	3008.0	3057.7	3146.4	3164.3	3106.5
42.5°	2854.9	2904.7	2999.5	3002.3	2954.5
45°	2698.6	2746.5	2834.8	2837.1	2781.2
47.5°	2540.0	2588.3	2667.2	2658.3	2605.7
50°	2379.4	2425.4	2494.4	2476.6	2429.2
52.5°	2213.3	2257.9	2323.1	2294.0	2249.4
55°	2046.1	2087.5	2141.9	2110.9	2076.2
57.5°	1877.6	1919.4	1961.2	1929.7	1899.7
60°	1707.7	1744.3	1778.6	1746.7	1723.7
62.5°	1535.0	1566.4	1596.0	1565.5	1543.9
65°	1360.3	1388.0	1412.4	1384.3	1361.3
67.5°	1186.7	1210.1	1232.7	1203.6	1179.6
70°	1013.0	1033.2	1053.8	1023.8	1001.7
72.5°	841.6	859.5	877.8	848.7	829.4
75°	675.0	690.5	705.5	679.7	664.7
77.5°	515.9	529.0	539.3	522.9	508.4
80°	368.0	377.9	384.0	377.4	363.8
82.5°	236.6	243.6	246.9	246.4	237.5
85°	128.6	131.0	137.1	138.5	133.8
87.5°	49.8	53.0	54.5	58.7	54.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)