

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: P489563

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-5STD-20-120-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: P489563  
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-LD4-5STD-20-120-EDD  
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

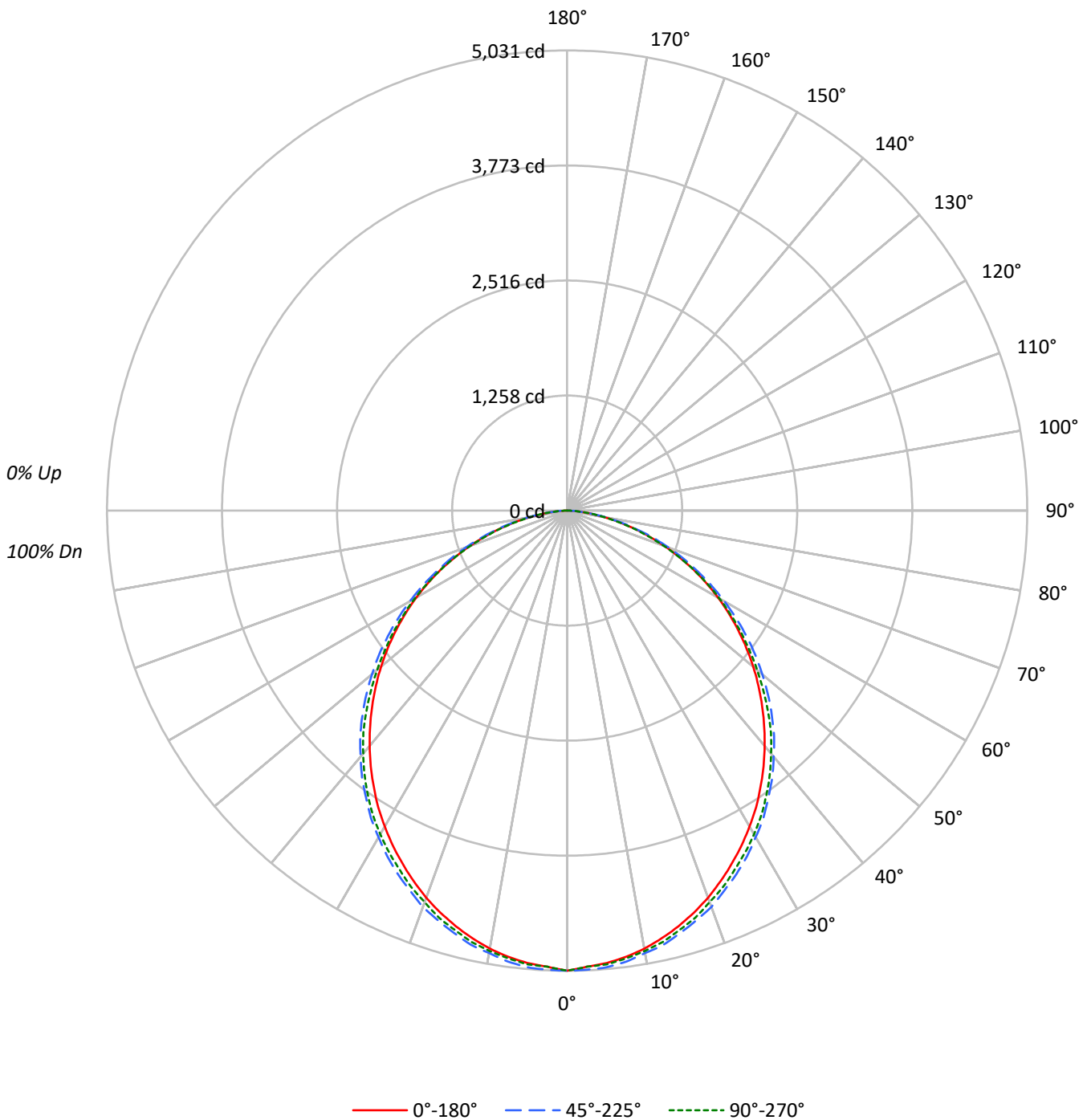
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13226.3 lumens  
Efficiency: N/A  
Efficacy: 79.4 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): 166.5  
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°	6769	6769	6769
5°	6706	6769	6727
10°	6645	6712	6680
15°	6553	6659	6612
20°	6450	6603	6523
25°	6324	6508	6433
30°	6196	6406	6348
35°	6057	6297	6238
40°	5899	6171	6093
45°	5734	6023	5909
50°	5561	5830	5678
55°	5360	5610	5438
60°	5131	5344	5179
65°	4836	5021	4839
70°	4450	4629	4400
75°	3918	4095	3858
80°	3184	3322	3147
85°	2217	2364	2306



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	473.8	3.6
10°-20°	1342.7	10.2
20°-30°	2002.5	15.1
30°-40°	2373.0	17.9
40°-50°	2401.1	18.2
50°-60°	2097.0	15.9
60°-70°	1532.4	11.6
70°-80°	815.4	6.2
80°-90°	188.4	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°	3819.0	28.9
0°-40°	6192.0	46.8
0°-60°	10690.1	80.8
0°-90°	13226.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13226.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5031	5031	5031	5031	5031	
5°	4965	4975	5012	5024	4981	471
15°	4704	4736	4780	4809	4747	1326
25°	4260	4312	4384	4400	4333	1963
35°	3687	3745	3834	3860	3798	2306
45°	3013	3067	3165	3168	3106	2325
55°	2285	2331	2392	2357	2318	2042
65°	1519	1550	1577	1546	1520	1503
75°	754	771	788	759	742	801
85°	144	146	153	155	149	182
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5030.8	5030.8	5030.8	5030.8	5030.8
2.5°	4991.5	5007.8	5024.5	5031.9	4991.0
5°	4965.3	4974.7	5011.9	5023.5	4981.0
7.5°	4922.3	4936.5	4972.6	4977.9	4937.0
10°	4863.6	4888.8	4912.9	4939.1	4889.3
12.5°	4788.7	4822.7	4863.6	4868.3	4830.6
15°	4704.3	4735.7	4780.3	4809.1	4746.7
17.5°	4609.9	4640.3	4698.0	4703.2	4665.5
20°	4504.6	4542.3	4611.5	4623.5	4555.9
22.5°	4385.1	4435.9	4493.6	4505.1	4455.3
25°	4259.8	4312.2	4383.5	4399.7	4333.2
27.5°	4128.7	4179.1	4259.3	4270.8	4214.7
30°	3988.3	4035.4	4123.5	4142.9	4085.8
32.5°	3845.7	3892.9	3990.4	4006.6	3951.1
35°	3687.4	3745.1	3833.6	3860.4	3798.0
37.5°	3526.0	3582.1	3682.7	3706.8	3639.7
40°	3358.8	3414.3	3513.4	3533.3	3468.8
42.5°	3187.9	3243.5	3349.3	3352.5	3299.0
45°	3013.4	3066.8	3165.4	3168.0	3105.6
47.5°	2836.2	2890.2	2978.2	2968.3	2909.6
50°	2656.9	2708.3	2785.3	2765.4	2712.5
52.5°	2471.4	2521.2	2594.0	2561.5	2511.7
55°	2284.8	2330.9	2391.7	2357.1	2318.3
57.5°	2096.6	2143.3	2189.9	2154.8	2121.2
60°	1906.9	1947.7	1986.0	1950.4	1924.7
62.5°	1714.0	1749.1	1782.1	1748.0	1723.9
65°	1519.0	1549.9	1577.2	1545.7	1520.0
67.5°	1325.1	1351.3	1376.4	1343.9	1317.2
70°	1131.1	1153.7	1176.7	1143.2	1118.5
72.5°	939.8	959.7	980.2	947.7	926.2
75°	753.7	771.0	787.8	759.0	742.2
77.5°	576.0	590.7	602.3	583.9	567.7
80°	410.9	421.9	428.8	421.4	406.2
82.5°	264.2	272.0	275.7	275.2	265.2
85°	143.6	146.2	153.1	154.6	149.4
87.5°	55.6	59.2	60.8	65.5	60.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)