

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: P489534

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-4STD-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: P489534  
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-40-120-EDD-90  
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

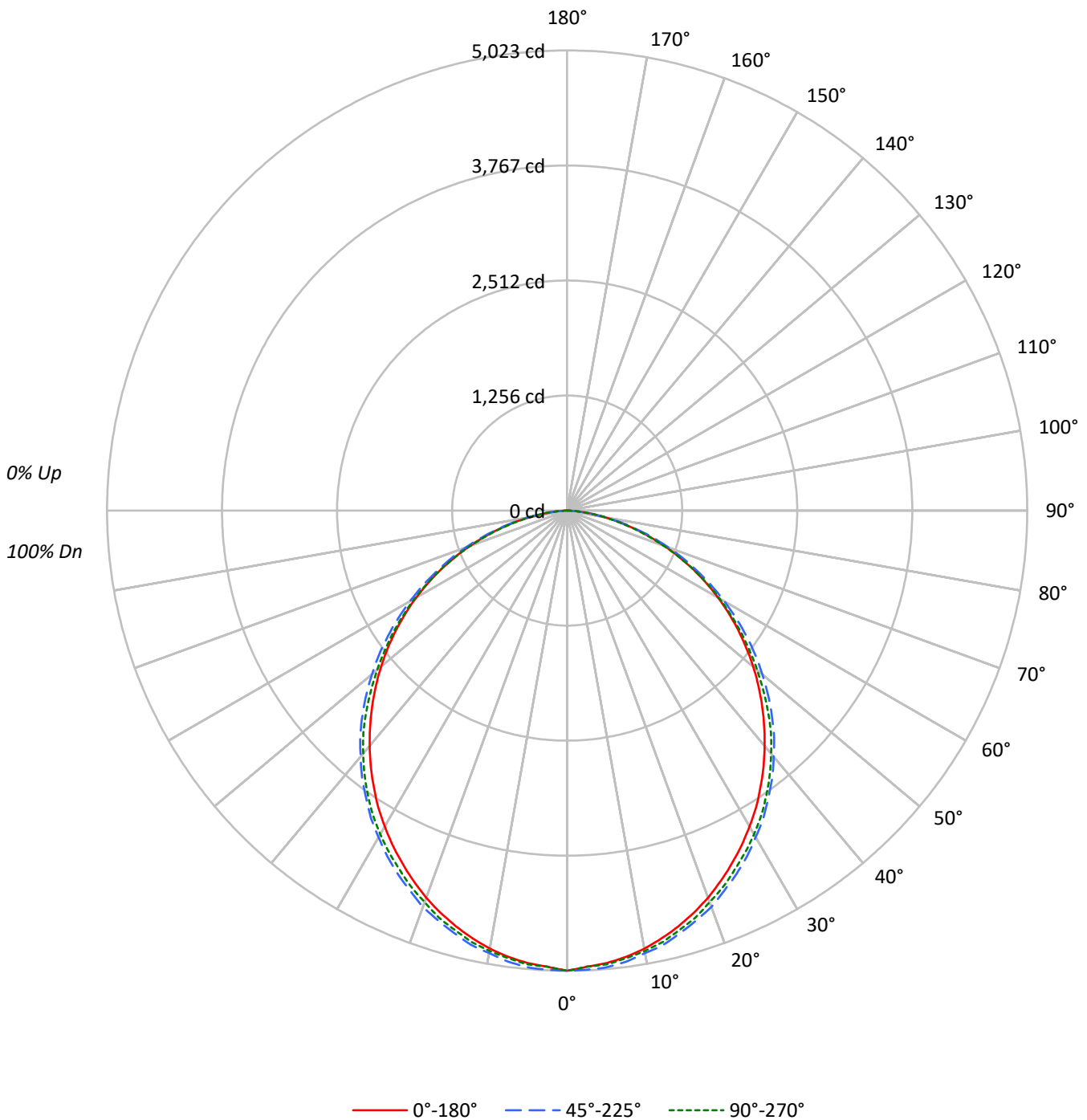
Lumens per Lamp: N/A  
Luminaire Lumens: 13205.0 lumens  
Efficiency: N/A  
Efficacy: 99.1 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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°	6758	6758	6758
5°	6695	6758	6717
10°	6634	6701	6669
15°	6542	6648	6601
20°	6439	6592	6513
25°	6314	6497	6423
30°	6186	6396	6338
35°	6047	6287	6228
40°	5890	6161	6083
45°	5725	6013	5900
50°	5552	5821	5669
55°	5351	5602	5430
60°	5123	5336	5171
65°	4828	5013	4832
70°	4443	4622	4393
75°	3912	4089	3852
80°	3179	3317	3143
85°	2214	2359	2302



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	473.0	3.6
10°-20°	1340.5	10.2
20°-30°	1999.3	15.1
30°-40°	2369.2	17.9
40°-50°	2397.2	18.2
50°-60°	2093.6	15.9
60°-70°	1529.9	11.6
70°-80°	814.1	6.2
80°-90°	188.1	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°	3812.8	28.9
0°-40°	6182.0	46.8
0°-60°	10672.9	80.8
0°-90°	13205.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13205.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5023	5023	5023	5023	5023	
5°	4957	4967	5004	5015	4973	470
15°	4697	4728	4773	4801	4739	1324
25°	4253	4305	4376	4393	4326	1959
35°	3682	3739	3828	3854	3792	2302
45°	3008	3062	3160	3163	3101	2321
55°	2281	2327	2388	2353	2315	2039
65°	1516	1547	1575	1543	1518	1501
75°	752	770	786	758	741	800
85°	143	146	153	154	149	182
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5022.7	5022.7	5022.7	5022.7	5022.7
2.5°	4983.5	4999.7	5016.4	5023.8	4982.9
5°	4957.3	4966.7	5003.9	5015.4	4973.0
7.5°	4914.4	4928.5	4964.6	4969.9	4929.0
10°	4855.8	4880.9	4905.0	4931.1	4881.4
12.5°	4780.9	4815.0	4855.8	4860.5	4822.8
15°	4696.7	4728.1	4772.6	4801.4	4739.1
17.5°	4602.5	4632.8	4690.4	4695.6	4658.0
20°	4497.3	4535.0	4604.1	4616.1	4548.6
22.5°	4378.0	4428.8	4486.3	4497.8	4448.1
25°	4252.9	4305.3	4376.4	4392.6	4326.2
27.5°	4122.1	4172.3	4252.4	4263.9	4207.9
30°	3981.9	4028.9	4116.9	4136.2	4079.2
32.5°	3839.5	3886.6	3983.9	4000.2	3944.7
35°	3681.5	3739.0	3827.5	3854.2	3791.9
37.5°	3520.3	3576.3	3676.8	3700.8	3633.9
40°	3353.4	3408.8	3507.7	3527.6	3463.3
42.5°	3182.8	3238.2	3343.9	3347.1	3293.7
45°	3008.5	3061.9	3160.3	3162.9	3100.6
47.5°	2831.6	2885.5	2973.4	2963.5	2904.9
50°	2652.6	2703.9	2780.9	2761.0	2708.1
52.5°	2467.4	2517.1	2589.9	2557.4	2507.7
55°	2281.1	2327.2	2387.9	2353.3	2314.6
57.5°	2093.2	2139.8	2186.4	2151.3	2117.8
60°	1903.8	1944.6	1982.8	1947.2	1921.6
62.5°	1711.2	1746.3	1779.2	1745.2	1721.2
65°	1516.5	1547.4	1574.6	1543.2	1517.6
67.5°	1322.9	1349.1	1374.2	1341.8	1315.1
70°	1129.3	1151.8	1174.8	1141.3	1116.7
72.5°	938.3	958.2	978.6	946.1	924.7
75°	752.5	769.8	786.5	757.8	741.0
77.5°	575.1	589.8	601.3	583.0	566.7
80°	410.3	421.3	428.1	420.7	405.6
82.5°	263.7	271.6	275.3	274.7	264.8
85°	143.4	146.0	152.8	154.4	149.1
87.5°	55.5	59.1	60.7	65.4	60.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)