

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: P489007

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-5HI-40-120-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: P489007  
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-24-2-INS-A12125-LD4-5HI-40-120-EDD  
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

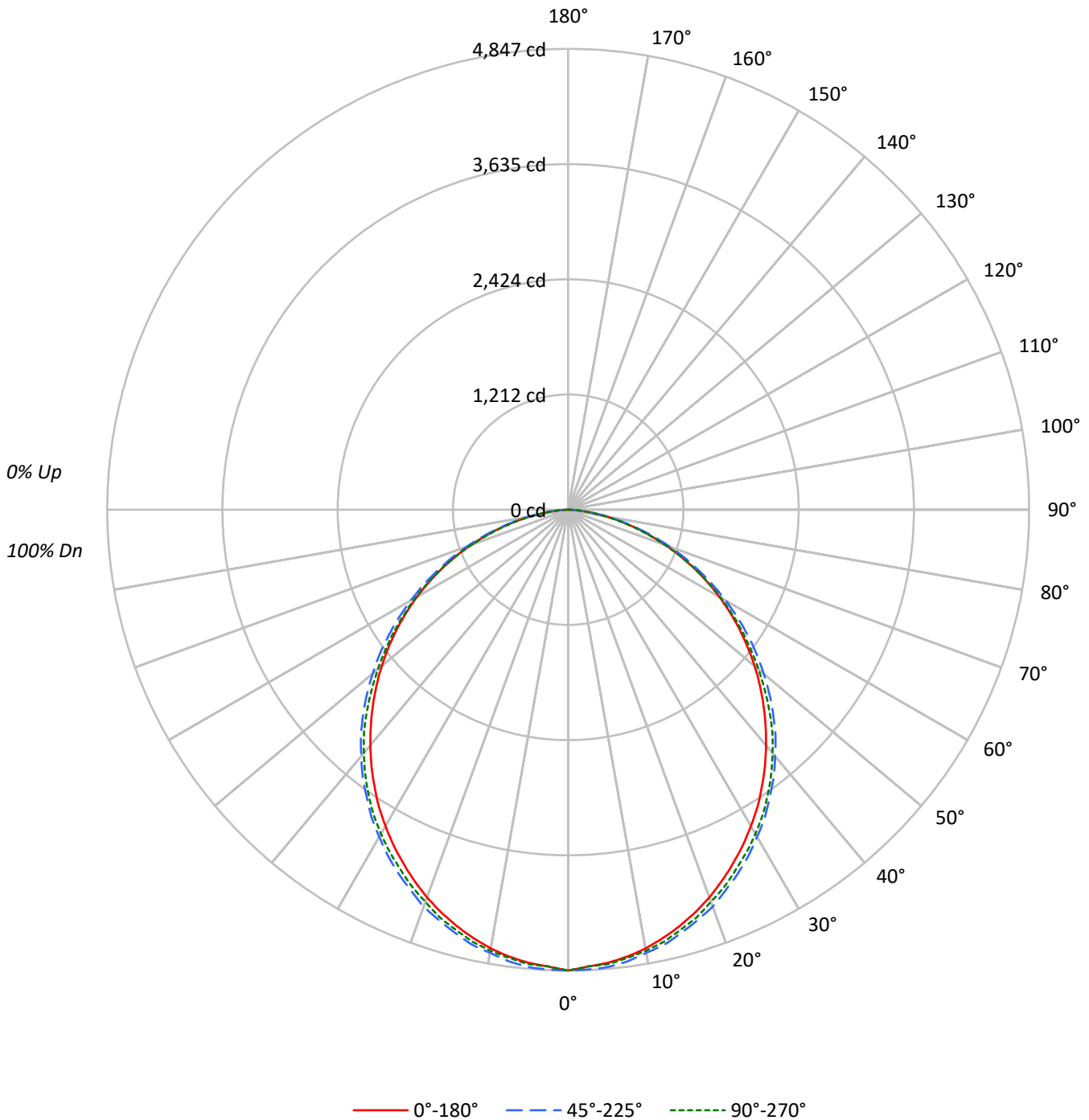
Lumens per Lamp: N/A  
Luminaire Lumens: 12742.2 lumens  
Efficiency: N/A  
Efficacy: 118.0 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 108  
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°	13042	13042	13042
5°	12922	13043	12963
10°	12803	12933	12871
15°	12626	12830	12740
20°	12428	12722	12569
25°	12185	12539	12395
30°	11939	12344	12231
35°	11670	12133	12020
40°	11367	11890	11740
45°	11048	11605	11386
50°	10716	11234	10940
55°	10327	10810	10479
60°	9887	10297	9979
65°	9318	9675	9324
70°	8574	8920	8478
75°	7549	7891	7434
80°	6135	6402	6064
85°	4273	4554	4443



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	456.5	3.6
10°-20°	1293.5	10.2
20°-30°	1929.2	15.1
30°-40°	2286.1	17.9
40°-50°	2313.2	18.2
50°-60°	2020.3	15.9
60°-70°	1476.3	11.6
70°-80°	785.5	6.2
80°-90°	181.6	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°	3679.2	28.9
0°-40°	5965.3	46.8
0°-60°	10298.8	80.8
0°-90°	12742.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12742.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4847	4847	4847	4847	4847	
5°	4784	4793	4828	4840	4799	454
15°	4532	4562	4605	4633	4573	1278
25°	4104	4154	4223	4239	4175	1891
35°	3552	3608	3693	3719	3659	2222
45°	2903	2955	3050	3052	2992	2240
55°	2201	2246	2304	2271	2234	1968
65°	1463	1493	1519	1489	1464	1448
75°	726	743	759	731	715	772
85°	138	141	148	149	144	175
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4846.7	4846.7	4846.7	4846.7	4846.7
2.5°	4808.8	4824.5	4840.6	4847.7	4808.3
5°	4783.6	4792.6	4828.5	4839.6	4798.7
7.5°	4742.2	4755.8	4790.6	4795.7	4756.3
10°	4685.6	4709.8	4733.1	4758.3	4710.3
12.5°	4613.4	4646.2	4685.6	4690.1	4653.8
15°	4532.1	4562.4	4605.3	4633.1	4573.0
17.5°	4441.2	4470.5	4526.0	4531.1	4494.7
20°	4339.7	4376.0	4442.7	4454.3	4389.2
22.5°	4224.6	4273.5	4329.1	4340.2	4292.2
25°	4103.9	4154.4	4223.0	4238.7	4174.6
27.5°	3977.6	4026.1	4103.4	4114.5	4060.4
30°	3842.3	3887.7	3972.6	3991.3	3936.2
32.5°	3704.9	3750.4	3844.3	3860.0	3806.4
35°	3552.4	3608.0	3693.3	3719.1	3659.0
37.5°	3396.9	3450.9	3547.9	3571.1	3506.5
40°	3235.8	3289.4	3384.8	3404.0	3341.9
42.5°	3071.2	3124.7	3226.7	3229.8	3178.3
45°	2903.1	2954.6	3049.5	3052.0	2991.9
47.5°	2732.4	2784.4	2869.2	2859.6	2803.1
50°	2559.7	2609.2	2683.4	2664.2	2613.2
52.5°	2380.9	2428.9	2499.1	2467.8	2419.8
55°	2201.2	2245.6	2304.2	2270.8	2233.5
57.5°	2019.9	2064.8	2109.8	2075.9	2043.6
60°	1837.1	1876.5	1913.3	1879.0	1854.2
62.5°	1651.2	1685.1	1716.9	1684.1	1660.8
65°	1463.4	1493.2	1519.4	1489.1	1464.4
67.5°	1276.6	1301.8	1326.0	1294.7	1269.0
70°	1089.7	1111.4	1133.7	1101.3	1077.6
72.5°	905.4	924.6	944.3	913.0	892.3
75°	726.1	742.8	759.0	731.2	715.0
77.5°	555.0	569.1	580.2	562.5	546.9
80°	395.9	406.5	413.1	406.0	391.3
82.5°	254.5	262.1	265.6	265.1	255.5
85°	138.4	140.9	147.5	149.0	143.9
87.5°	53.5	57.1	58.6	63.1	58.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)