

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: P489032

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-5STD-50-120-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: P489032  
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-LD4-5STD-50-120-EDD-90  
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

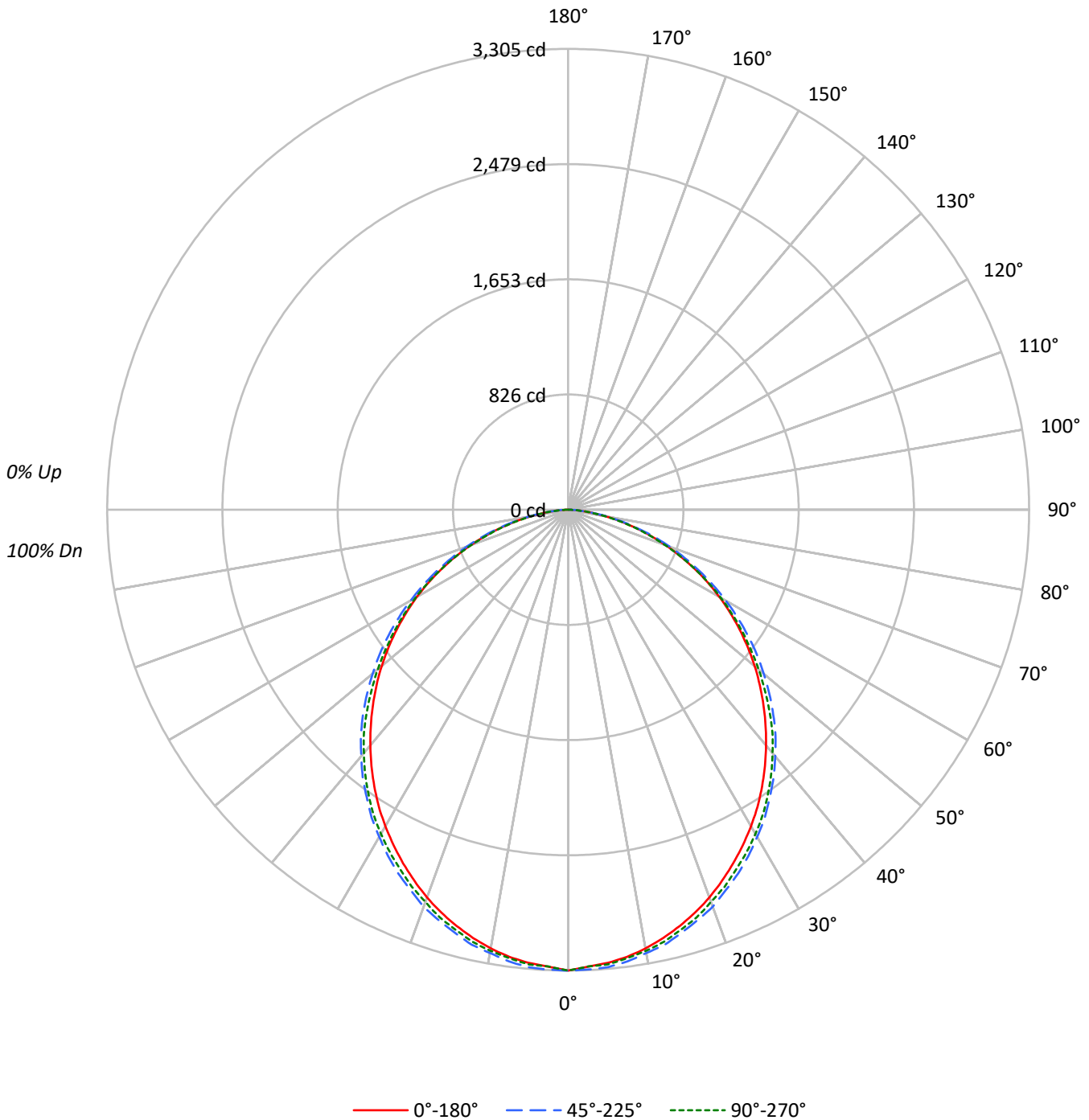
Lumens per Lamp: N/A  
Luminaire Lumens: 8690.2 lumens  
Efficiency: N/A  
Efficacy: 104.4 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 83.2  
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°	8895	8895	8895
5°	8813	8895	8840
10°	8732	8820	8778
15°	8611	8750	8689
20°	8476	8677	8572
25°	8310	8551	8454
30°	8143	8419	8341
35°	7959	8275	8198
40°	7752	8109	8006
45°	7535	7915	7765
50°	7308	7662	7461
55°	7043	7372	7146
60°	6743	7023	6806
65°	6355	6599	6359
70°	5847	6083	5782
75°	5149	5382	5071
80°	4184	4365	4136
85°	2915	3106	3032



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	311.3	3.6
10°-20°	882.2	10.2
20°-30°	1315.7	15.1
30°-40°	1559.1	17.9
40°-50°	1577.6	18.2
50°-60°	1377.8	15.9
60°-70°	1006.8	11.6
70°-80°	535.7	6.2
80°-90°	123.8	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°	2509.2	28.9
0°-40°	4068.4	46.8
0°-60°	7023.8	80.8
0°-90°	8690.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8690.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3305	3305	3305	3305	3305	
5°	3262	3269	3293	3301	3273	309
15°	3091	3112	3141	3160	3119	871
25°	2799	2833	2880	2891	2847	1289
35°	2423	2461	2519	2536	2495	1515
45°	1980	2015	2080	2082	2040	1527
55°	1501	1532	1571	1549	1523	1342
65°	998	1018	1036	1016	999	988
75°	495	507	518	499	488	527
85°	94	96	101	102	98	120
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3305.4	3305.4	3305.4	3305.4	3305.4
2.5°	3279.6	3290.3	3301.3	3306.1	3279.3
5°	3262.4	3268.6	3293.0	3300.6	3272.7
7.5°	3234.2	3243.5	3267.2	3270.7	3243.8
10°	3195.6	3212.1	3228.0	3245.2	3212.5
12.5°	3146.3	3168.7	3195.6	3198.7	3173.9
15°	3090.9	3111.6	3140.8	3159.8	3118.8
17.5°	3028.9	3048.9	3086.8	3090.2	3065.4
20°	2959.7	2984.5	3029.9	3037.9	2993.4
22.5°	2881.2	2914.6	2952.4	2960.0	2927.3
25°	2798.8	2833.3	2880.1	2890.8	2847.1
27.5°	2712.7	2745.8	2798.5	2806.1	2769.2
30°	2620.5	2651.4	2709.3	2722.0	2684.5
32.5°	2526.8	2557.8	2621.8	2632.5	2596.0
35°	2422.8	2460.7	2518.9	2536.4	2495.4
37.5°	2316.7	2353.6	2419.7	2435.5	2391.4
40°	2206.8	2243.3	2308.4	2321.5	2279.2
42.5°	2094.6	2131.1	2200.6	2202.7	2167.6
45°	1979.9	2015.0	2079.8	2081.5	2040.5
47.5°	1863.5	1899.0	1956.8	1950.3	1911.7
50°	1745.7	1779.5	1830.1	1817.0	1782.2
52.5°	1623.8	1656.5	1704.4	1683.0	1650.3
55°	1501.2	1531.5	1571.4	1548.7	1523.2
57.5°	1377.6	1408.2	1438.9	1415.8	1393.7
60°	1252.9	1279.7	1304.9	1281.5	1264.6
62.5°	1126.2	1149.2	1170.9	1148.5	1132.7
65°	998.0	1018.4	1036.3	1015.6	998.7
67.5°	870.6	887.8	904.4	883.0	865.4
70°	743.2	758.0	773.2	751.1	734.9
72.5°	617.5	630.6	644.0	622.7	608.5
75°	495.2	506.6	517.6	498.7	487.7
77.5°	378.5	388.1	395.7	383.6	373.0
80°	270.0	277.2	281.7	276.9	266.9
82.5°	173.6	178.7	181.1	180.8	174.3
85°	94.4	96.1	100.6	101.6	98.2
87.5°	36.5	38.9	39.9	43.0	39.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)