

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: P489005

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-5HI-35-120-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: P489005  
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-35-120-EDD  
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

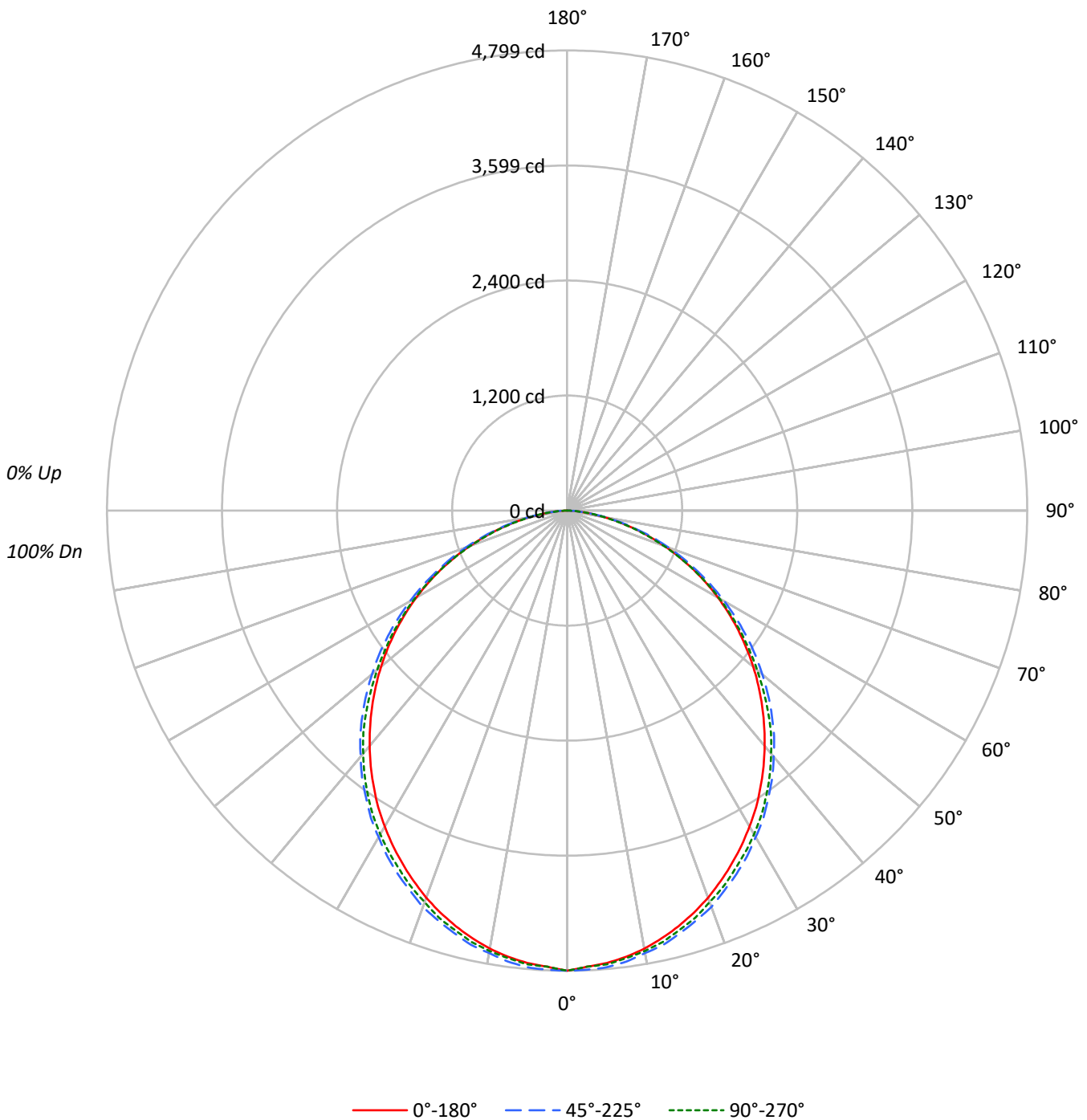
Lumens per Lamp: N/A  
Luminaire Lumens: 12616.0 lumens  
Efficiency: N/A  
Efficacy: 116.8 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

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°	12913	12913	12913
5°	12794	12914	12834
10°	12677	12805	12744
15°	12501	12703	12614
20°	12304	12596	12445
25°	12064	12415	12272
30°	11821	12222	12110
35°	11555	12013	11901
40°	11254	11773	11623
45°	10938	11490	11273
50°	10610	11122	10832
55°	10225	10703	10375
60°	9789	10196	9881
65°	9226	9579	9232
70°	8489	8831	8394
75°	7476	7812	7361
80°	6075	6338	6005
85°	4230	4508	4400



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	451.9	3.6
10°-20°	1280.7	10.2
20°-30°	1910.1	15.1
30°-40°	2263.5	17.9
40°-50°	2290.3	18.2
50°-60°	2000.3	15.9
60°-70°	1461.7	11.6
70°-80°	777.7	6.2
80°-90°	179.8	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°	3642.7	28.9
0°-40°	5906.2	46.8
0°-60°	10196.8	80.8
0°-90°	12616.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12616.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4799	4799	4799	4799	4799	
5°	4736	4745	4781	4792	4751	449
15°	4487	4517	4560	4587	4528	1265
25°	4063	4113	4181	4197	4133	1872
35°	3517	3572	3657	3682	3623	2200
45°	2874	2925	3019	3022	2962	2217
55°	2179	2223	2281	2248	2211	1948
65°	1449	1478	1504	1474	1450	1434
75°	719	736	751	724	708	764
85°	137	140	146	148	142	173
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4798.7	4798.7	4798.7	4798.7	4798.7
2.5°	4761.2	4776.7	4792.7	4799.7	4760.7
5°	4736.2	4745.2	4780.7	4791.7	4751.2
7.5°	4695.2	4708.7	4743.2	4748.2	4709.2
10°	4639.2	4663.2	4686.2	4711.2	4663.7
12.5°	4567.7	4600.2	4639.2	4643.7	4607.7
15°	4487.2	4517.2	4559.7	4587.2	4527.7
17.5°	4397.2	4426.2	4481.2	4486.2	4450.2
20°	4296.7	4332.7	4398.7	4410.2	4345.7
22.5°	4182.7	4231.2	4286.2	4297.2	4249.7
25°	4063.2	4113.2	4181.2	4196.7	4133.2
27.5°	3938.2	3986.2	4062.7	4073.7	4020.2
30°	3804.2	3849.2	3933.2	3951.7	3897.2
32.5°	3668.3	3713.3	3806.2	3821.7	3768.7
35°	3517.3	3572.3	3656.8	3682.3	3622.8
37.5°	3363.3	3416.8	3512.8	3535.8	3471.8
40°	3203.8	3256.8	3351.3	3370.3	3308.8
42.5°	3040.8	3093.8	3194.8	3197.8	3146.8
45°	2874.3	2925.3	3019.3	3021.8	2962.3
47.5°	2705.3	2756.8	2840.8	2831.3	2775.3
50°	2534.3	2583.3	2656.8	2637.8	2587.3
52.5°	2357.3	2404.8	2474.3	2443.3	2395.8
55°	2179.4	2223.4	2281.3	2248.3	2211.4
57.5°	1999.9	2044.4	2088.9	2055.4	2023.4
60°	1818.9	1857.9	1894.4	1860.4	1835.9
62.5°	1634.9	1668.4	1699.9	1667.4	1644.4
65°	1448.9	1478.4	1504.4	1474.4	1449.9
67.5°	1263.9	1288.9	1312.9	1281.9	1256.4
70°	1078.9	1100.4	1122.4	1090.4	1066.9
72.5°	896.4	915.4	934.9	903.9	883.4
75°	719.0	735.5	751.4	724.0	708.0
77.5°	549.5	563.5	574.5	557.0	541.5
80°	392.0	402.5	409.0	402.0	387.5
82.5°	252.0	259.5	263.0	262.5	253.0
85°	137.0	139.5	146.0	147.5	142.5
87.5°	53.0	56.5	58.0	62.5	57.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)