

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: P489537

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-4STD-50-120-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: P489537  
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-50-120-EDD  
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

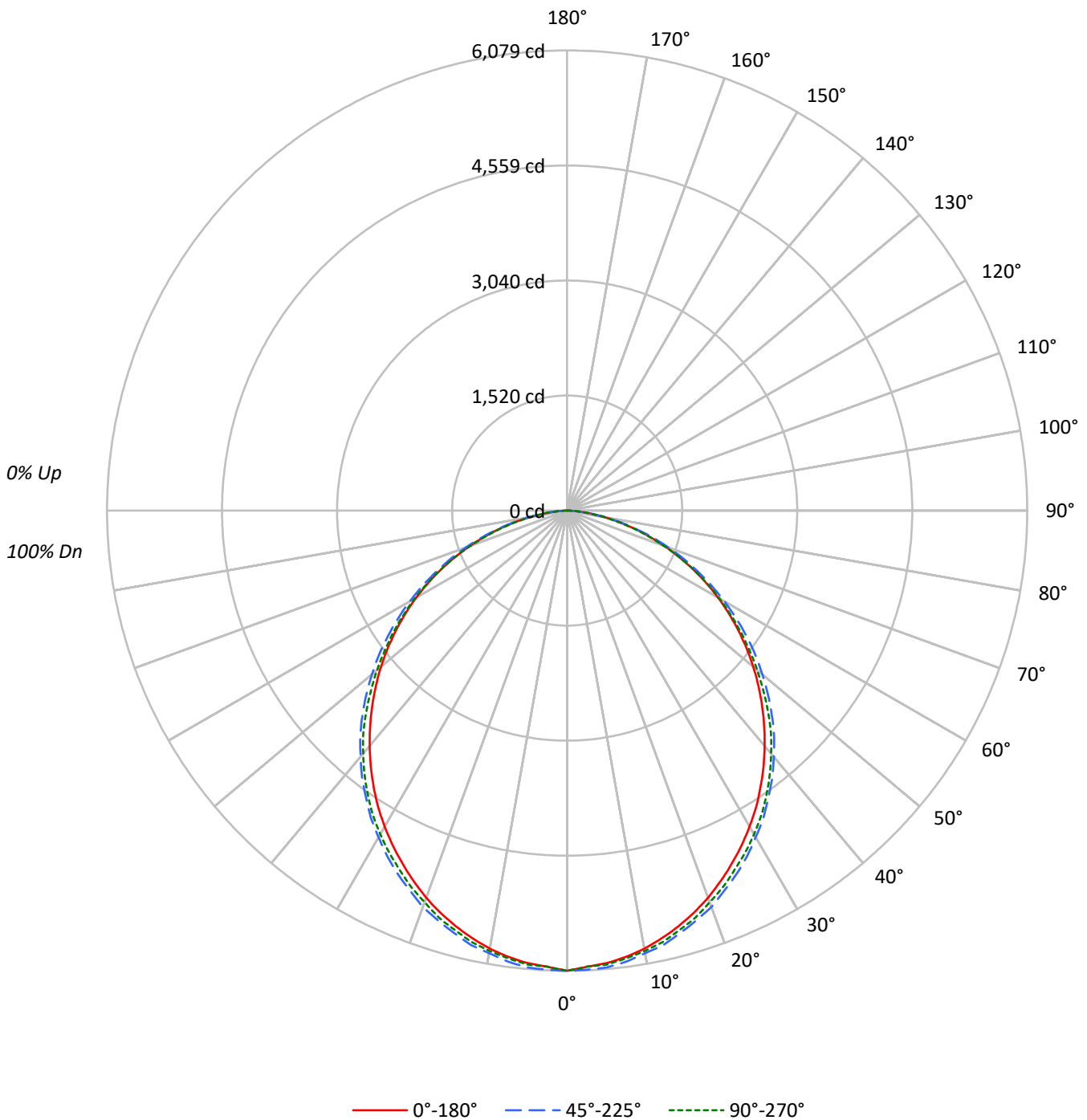
Lumens per Lamp: N/A  
Luminaire Lumens: 15982.6 lumens  
Efficiency: N/A  
Efficacy: 120.0 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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

TEST NUMBER: P489537

CATALOG NUMBER: CLM-24-4-INS-A12125-LD4-4STD-50-120-EDD

### Luminous Intensity Polar Plot





TEST NUMBER: P489537

CATALOG NUMBER: CLM-24-4-INS-A12125-LD4-4STD-50-120-EDD

**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	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°	8179	8179	8179
5°	8104	8180	8129
10°	8030	8111	8072
15°	7918	8046	7990
20°	7794	7979	7883
25°	7642	7864	7774
30°	7488	7741	7671
35°	7319	7609	7538
40°	7129	7457	7362
45°	6929	7278	7141
50°	6720	7045	6861
55°	6476	6780	6572
60°	6201	6458	6259
65°	5844	6068	5848
70°	5377	5594	5317
75°	4735	4949	4663
80°	3848	4014	3804
85°	2678	2854	2787



TEST NUMBER: P489537

CATALOG NUMBER: CLM-24-4-INS-A12125-LD4-4STD-50-120-EDD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	572.5	3.6
10°-20°	1622.5	10.2
20°-30°	2419.8	15.1
30°-40°	2867.5	17.9
40°-50°	2901.5	18.2
50°-60°	2534.0	15.9
60°-70°	1851.8	11.6
70°-80°	985.3	6.2
80°-90°	227.7	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°	4614.8	28.9
0°-40°	7482.3	46.8
0°-60°	12917.8	80.8
0°-90°	15982.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15982.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6079	6079	6079	6079	6079	
5°	6000	6011	6056	6070	6019	569
15°	5685	5723	5776	5811	5736	1603
25°	5148	5211	5297	5317	5236	2372
35°	4456	4526	4633	4665	4590	2787
45°	3641	3706	3825	3828	3753	2809
55°	2761	2817	2890	2848	2802	2468
65°	1836	1873	1906	1868	1837	1816
75°	911	932	952	917	897	968
85°	174	177	185	187	180	220
90°	0	0	0	0	0	



TEST NUMBER: P489537

CATALOG NUMBER: CLM-24-4-INS-A12125-LD4-4STD-50-120-EDD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6079.2	6079.2	6079.2	6079.2	6079.2
2.5°	6031.7	6051.3	6071.6	6080.5	6031.1
5°	6000.0	6011.4	6056.4	6070.3	6019.0
7.5°	5948.1	5965.2	6008.9	6015.2	5965.8
10°	5877.2	5907.6	5936.7	5968.4	5908.2
12.5°	5786.6	5827.8	5877.2	5882.9	5837.3
15°	5684.6	5722.6	5776.5	5811.3	5735.9
17.5°	5570.6	5607.3	5677.0	5683.3	5637.7
20°	5443.3	5488.9	5572.5	5587.1	5505.4
22.5°	5298.9	5360.3	5430.0	5443.9	5383.8
25°	5147.5	5210.8	5297.0	5316.6	5236.2
27.5°	4989.2	5050.0	5146.9	5160.8	5093.0
30°	4819.4	4876.4	4982.8	5006.3	4937.2
32.5°	4647.1	4704.1	4821.9	4841.6	4774.4
35°	4455.9	4525.5	4632.6	4664.9	4589.5
37.5°	4260.8	4328.5	4450.2	4479.3	4398.2
40°	4058.7	4125.9	4245.6	4269.6	4191.7
42.5°	3852.2	3919.4	4047.3	4051.1	3986.5
45°	3641.3	3705.9	3825.0	3828.2	3752.8
47.5°	3427.2	3492.5	3598.9	3586.8	3515.9
50°	3210.6	3272.7	3365.8	3341.7	3277.8
52.5°	2986.4	3046.6	3134.6	3095.3	3035.2
55°	2760.9	2816.7	2890.1	2848.3	2801.5
57.5°	2533.5	2589.9	2646.3	2603.8	2563.3
60°	2304.2	2353.7	2399.9	2356.8	2325.8
62.5°	2071.2	2113.6	2153.5	2112.3	2083.2
65°	1835.5	1872.9	1905.9	1867.8	1836.8
67.5°	1601.2	1632.9	1663.3	1624.0	1591.7
70°	1366.8	1394.1	1421.9	1381.4	1351.6
72.5°	1135.7	1159.7	1184.4	1145.2	1119.2
75°	910.8	931.7	952.0	917.1	896.9
77.5°	696.1	713.8	727.8	705.6	686.0
80°	496.6	509.9	518.1	509.2	490.9
82.5°	319.2	328.7	333.2	332.5	320.5
85°	173.5	176.7	184.9	186.8	180.5
87.5°	67.1	71.6	73.5	79.2	72.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)