

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: P489470

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-3HI-30-120-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: P489470  
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-LD4-3HI-30-120-EDD-90  
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

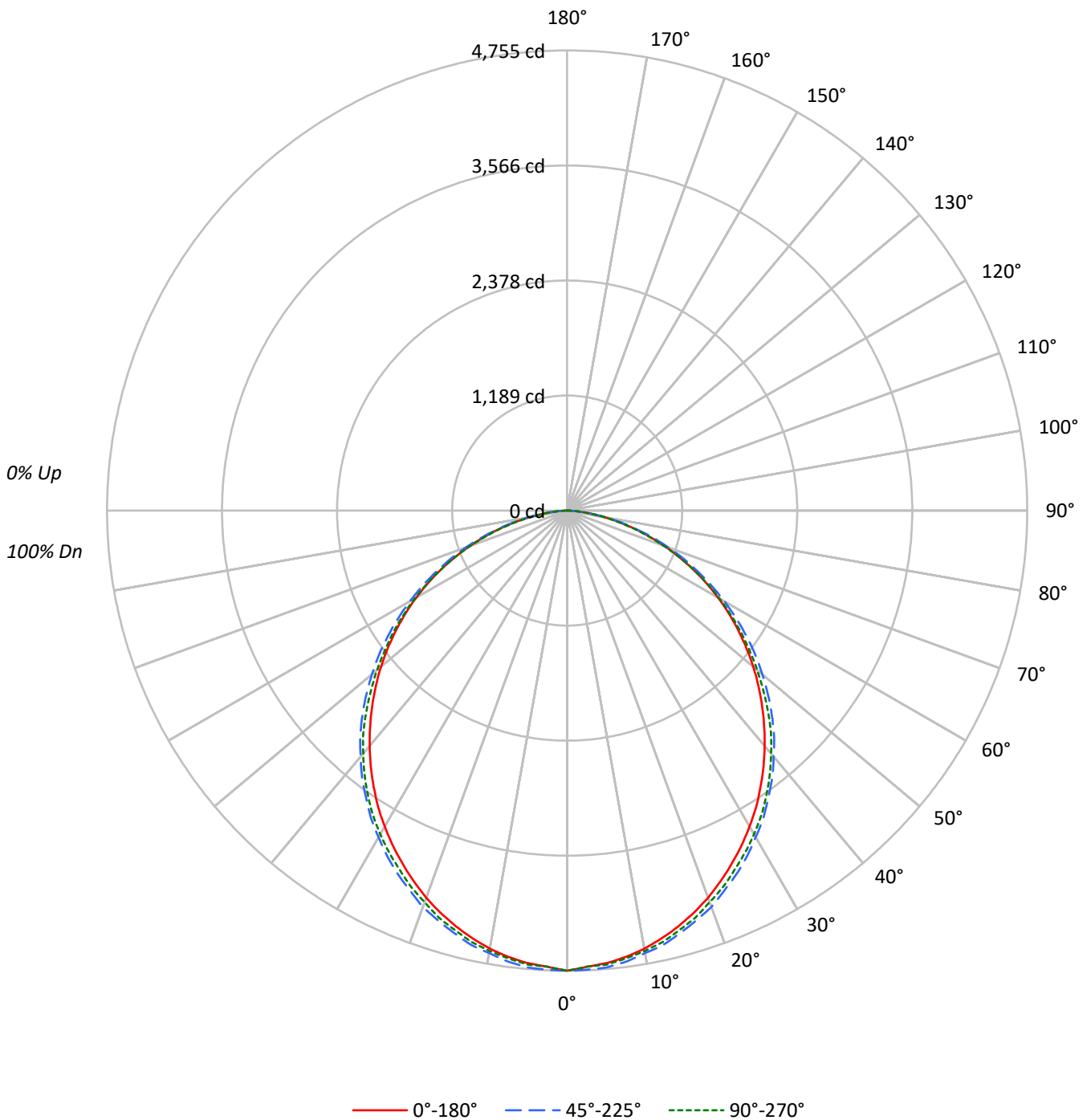
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12501.2 lumens  
Efficiency: N/A  
Efficacy: 96.5 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): 129.6  
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: P489470

CATALOG NUMBER: CLM-24-4-INS-A12125-LD4-3HI-30-120-EDD-90

### Luminous Intensity Polar Plot





TEST NUMBER: P489470

CATALOG NUMBER: CLM-24-4-INS-A12125-LD4-3HI-30-120-EDD-90

**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°	6398	6398	6398
5°	6339	6398	6359
10°	6281	6344	6314
15°	6194	6294	6249
20°	6096	6241	6166
25°	5977	6151	6080
30°	5857	6055	6000
35°	5725	5952	5896
40°	5576	5833	5759
45°	5420	5693	5585
50°	5257	5511	5367
55°	5066	5303	5140
60°	4850	5051	4895
65°	4571	4746	4574
70°	4206	4375	4159
75°	3703	3871	3647
80°	3009	3140	2975
85°	2095	2234	2180



TEST NUMBER: P489470

CATALOG NUMBER: CLM-24-4-INS-A12125-LD4-3HI-30-120-EDD-90

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	447.8	3.6
10°-20°	1269.0	10.2
20°-30°	1892.7	15.1
30°-40°	2242.9	17.9
40°-50°	2269.5	18.2
50°-60°	1982.1	15.9
60°-70°	1448.4	11.6
70°-80°	770.7	6.2
80°-90°	178.1	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°	3609.6	28.9
0°-40°	5852.5	46.8
0°-60°	10104.0	80.8
0°-90°	12501.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12501.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4755	4755	4755	4755	4755	
5°	4693	4702	4737	4748	4708	445
15°	4446	4476	4518	4546	4486	1253
25°	4026	4076	4143	4158	4096	1855
35°	3485	3540	3624	3649	3590	2180
45°	2848	2899	2992	2994	2935	2197
55°	2160	2203	2261	2228	2191	1930
65°	1436	1465	1491	1461	1437	1421
75°	712	729	745	717	702	757
85°	136	138	145	146	141	172
90°	0	0	0	0	0	



TEST NUMBER: P489470

CATALOG NUMBER: CLM-24-4-INS-A12125-LD4-3HI-30-120-EDD-90

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4755.0	4755.0	4755.0	4755.0	4755.0
2.5°	4717.9	4733.2	4749.1	4756.0	4717.4
5°	4693.1	4702.0	4737.2	4748.1	4707.9
7.5°	4652.5	4665.8	4700.0	4705.0	4666.3
10°	4597.0	4620.8	4643.5	4668.3	4621.2
12.5°	4526.1	4558.3	4597.0	4601.4	4565.8
15°	4446.4	4476.1	4518.2	4545.5	4486.5
17.5°	4357.2	4385.9	4440.4	4445.4	4409.7
20°	4257.6	4293.3	4358.7	4370.1	4306.2
22.5°	4144.7	4192.7	4247.2	4258.1	4211.0
25°	4026.3	4075.8	4143.2	4158.5	4095.6
27.5°	3902.4	3950.0	4025.8	4036.7	3983.6
30°	3769.6	3814.2	3897.4	3915.8	3861.8
32.5°	3634.9	3679.5	3771.6	3787.0	3734.5
35°	3485.3	3539.8	3623.5	3648.7	3589.8
37.5°	3332.7	3385.7	3480.8	3503.6	3440.2
40°	3174.6	3227.1	3320.8	3339.6	3278.7
42.5°	3013.1	3065.6	3165.7	3168.7	3118.2
45°	2848.2	2898.7	2991.8	2994.3	2935.3
47.5°	2680.7	2731.7	2815.0	2805.5	2750.1
50°	2511.3	2559.8	2632.6	2613.8	2563.8
52.5°	2335.9	2383.0	2451.8	2421.1	2374.0
55°	2159.5	2203.1	2260.6	2227.9	2191.2
57.5°	1981.7	2025.8	2069.9	2036.7	2005.0
60°	1802.3	1841.0	1877.1	1843.4	1819.2
62.5°	1620.0	1653.2	1684.4	1652.2	1629.4
65°	1435.7	1464.9	1490.7	1461.0	1436.7
67.5°	1252.4	1277.2	1301.0	1270.2	1245.0
70°	1069.1	1090.4	1112.2	1080.5	1057.2
72.5°	888.3	907.1	926.4	895.7	875.4
75°	712.4	728.8	744.6	717.4	701.5
77.5°	544.5	558.3	569.2	551.9	536.5
80°	388.4	398.8	405.3	398.3	383.9
82.5°	249.7	257.1	260.6	260.1	250.7
85°	135.7	138.2	144.7	146.1	141.2
87.5°	52.5	56.0	57.5	61.9	57.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)