

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: P489277

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-2STD-27-120-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: P489277  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P387254)  
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-P12125-LD4-2STD-27-120-EDD  
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

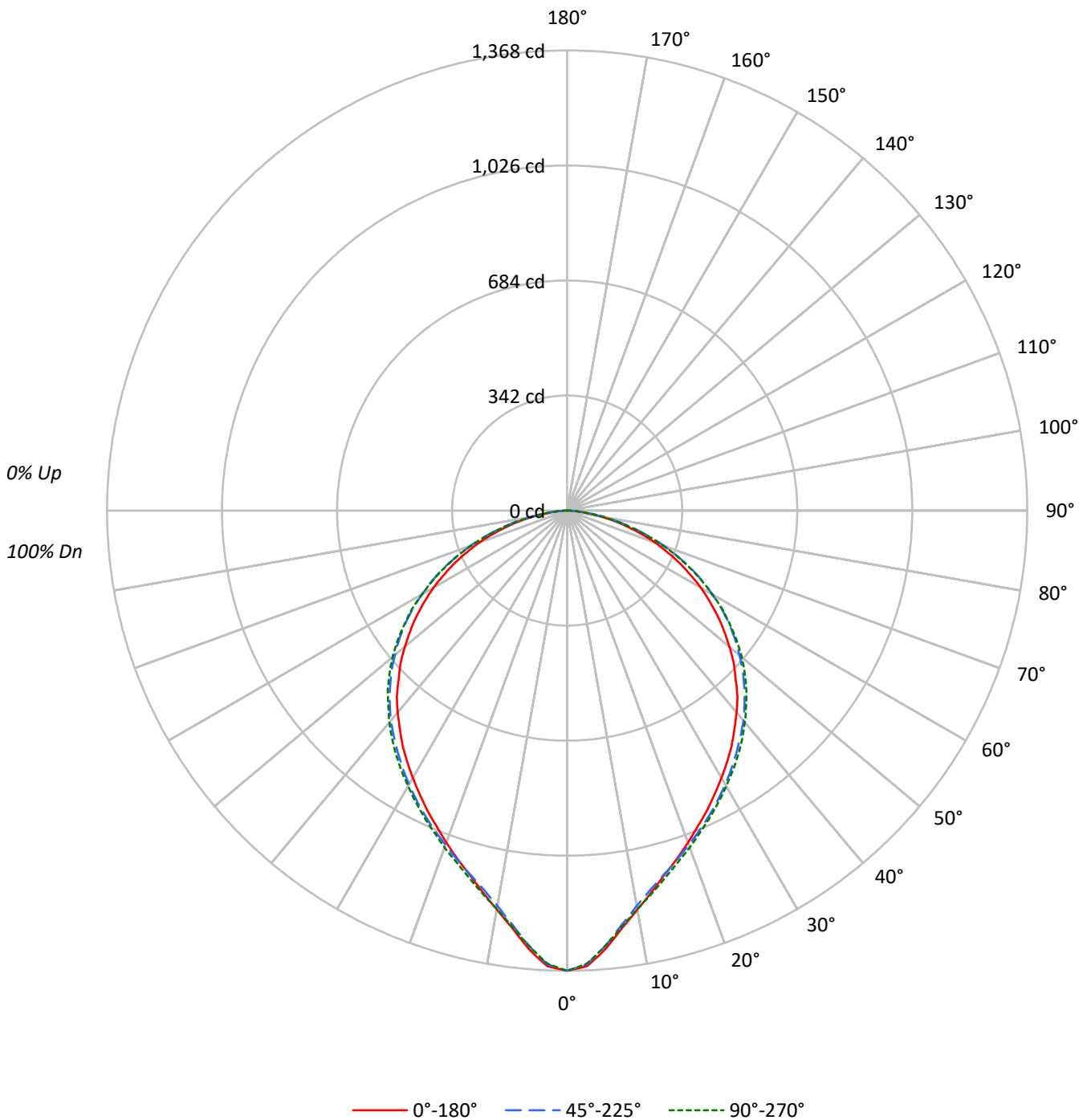
Lumens per Lamp: N/A  
Luminaire Lumens: 3177.3 lumens  
Efficiency: N/A  
Efficacy: 95.4 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 33.3  
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: P489277

CATALOG NUMBER: CLM-24-2-INS-P12125-LD4-2STD-27-120-EDD

### Luminous Intensity Polar Plot





TEST NUMBER: P489277

CATALOG NUMBER: CLM-24-2-INS-P12125-LD4-2STD-27-120-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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3681	3681	3681
5°	3534	3509	3509
10°	3289	3260	3285
15°	3121	3116	3146
20°	3007	3028	3052
25°	2921	2969	2986
30°	2851	2921	2939
35°	2802	2883	2913
40°	2752	2864	2888
45°	2695	2836	2869
50°	2636	2800	2838
55°	2563	2760	2771
60°	2470	2684	2679
65°	2342	2581	2564
70°	2186	2407	2378
75°	1930	2132	2111
80°	1568	1737	1652
85°	1087	1108	1065



TEST NUMBER: P489277

CATALOG NUMBER: CLM-24-2-INS-P12125-LD4-2STD-27-120-EDD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	120.9	3.8
10°-20°	316.6	10.0
20°-30°	460.4	14.5
30°-40°	547.9	17.2
40°-50°	568.9	17.9
50°-60°	515.4	16.2
60°-70°	388.9	12.2
70°-80°	211.9	6.7
80°-90°	46.5	1.5
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°	897.9	28.3
0°-40°	1445.7	45.5
0°-60°	2529.9	79.6
0°-90°	3177.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3177.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1368	1368	1368	1368	1368	
5°	1308	1305	1299	1298	1299	121
15°	1120	1118	1118	1126	1129	316
25°	984	992	1000	1008	1006	453
35°	853	863	878	891	887	533
45°	708	721	745	753	754	547
55°	546	559	588	592	591	488
65°	368	378	405	405	403	364
75°	186	193	205	206	203	198
85°	35	36	36	36	34	44
90°	0	0	0	0	0	



TEST NUMBER: P489277

CATALOG NUMBER: CLM-24-2-INS-P12125-LD4-2STD-27-120-EDD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1367.9	1367.9	1367.9	1367.9	1367.9
2.5°	1355.9	1354.5	1350.1	1348.4	1348.0
5°	1308.4	1305.3	1299.2	1298.5	1299.2
7.5°	1251.7	1248.2	1242.1	1244.5	1247.6
10°	1203.8	1195.3	1192.9	1196.3	1202.1
12.5°	1161.1	1154.2	1152.2	1161.1	1165.2
15°	1120.4	1117.7	1118.4	1125.9	1129.3
17.5°	1085.2	1083.5	1087.9	1093.8	1095.5
20°	1050.0	1053.4	1057.5	1063.7	1065.7
22.5°	1015.5	1022.0	1028.8	1037.0	1034.3
25°	983.7	991.9	999.8	1008.0	1005.6
27.5°	949.9	959.4	970.4	979.3	975.8
30°	917.4	929.3	939.9	950.9	945.8
32.5°	885.3	896.5	909.2	922.5	916.7
35°	852.8	863.0	877.7	891.1	886.6
37.5°	816.9	829.5	846.3	857.9	854.8
40°	783.4	795.0	815.2	822.7	822.0
42.5°	749.6	759.1	780.3	788.9	787.5
45°	708.2	720.9	745.1	753.3	754.0
47.5°	671.6	682.2	708.2	714.7	716.1
50°	629.6	642.9	668.9	676.7	677.8
52.5°	588.2	602.6	629.2	634.7	635.8
55°	546.2	559.2	588.2	592.3	590.6
57.5°	502.1	517.8	544.5	546.5	548.2
60°	459.0	472.7	498.7	501.4	497.7
62.5°	412.2	426.2	452.9	453.6	450.5
65°	367.8	378.4	405.4	404.7	402.6
67.5°	321.3	334.3	354.1	354.8	353.1
70°	277.9	286.8	305.9	306.3	302.2
72.5°	231.1	240.6	256.0	254.0	252.9
75°	185.6	193.1	205.1	206.5	203.0
77.5°	143.9	149.4	158.3	157.2	153.5
80°	101.2	105.6	112.1	110.8	106.6
82.5°	64.6	67.3	71.4	69.7	68.0
85°	35.2	35.5	35.9	35.5	34.5
87.5°	13.0	13.3	13.3	13.0	12.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)