

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: P489781

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-1STD-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: P489781  
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-24-4-INS-P12125-LD4-1STD-27-120-EDD  
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

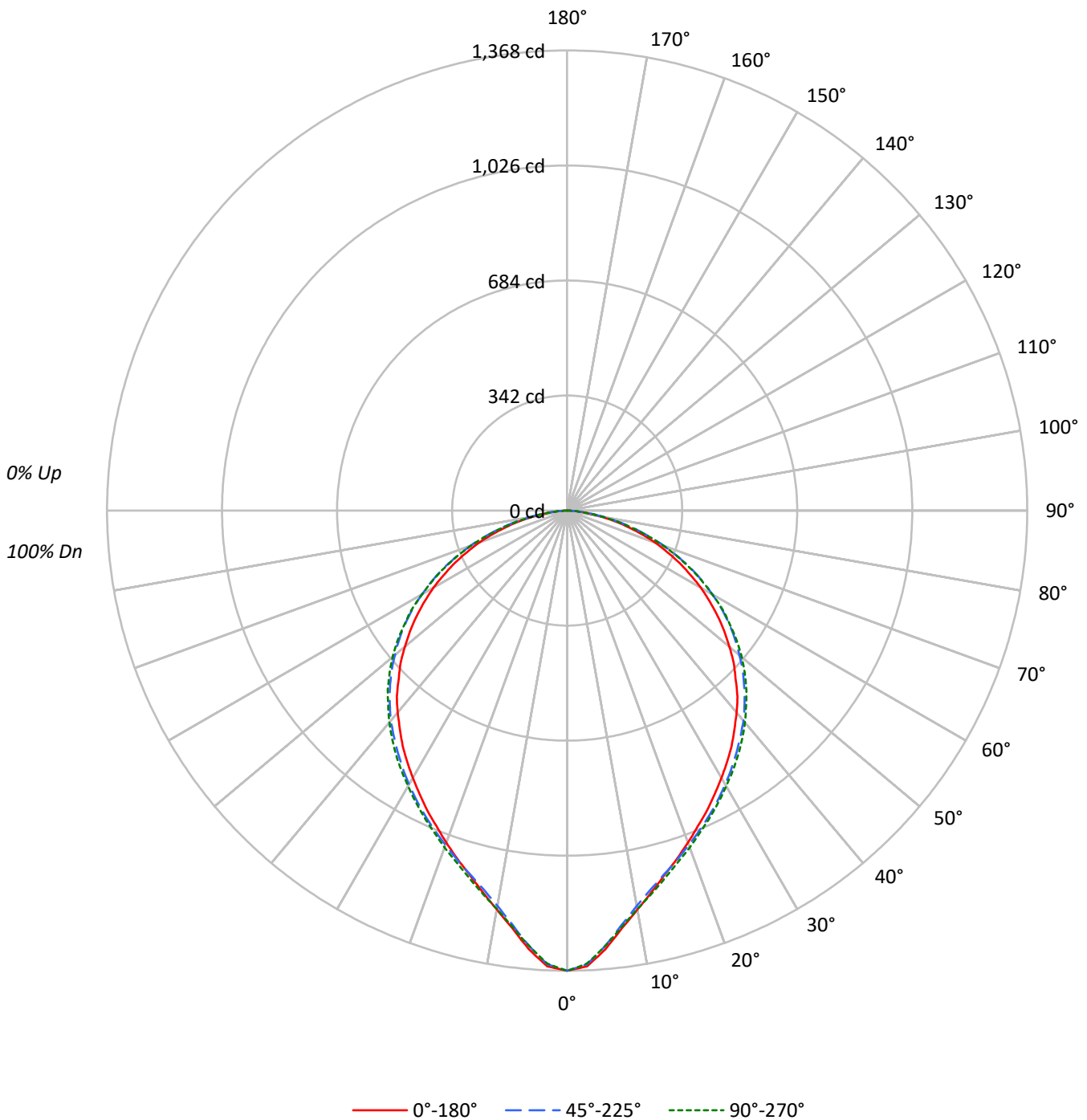
Lumens per Lamp: N/A  
Luminaire Lumens: 3177.5 lumens  
Efficiency: N/A  
Efficacy: 95.4 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 33.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P489781

CATALOG NUMBER: CLM-24-4-INS-P12125-LD4-1STD-27-120-EDD

### Luminous Intensity Polar Plot





TEST NUMBER: P489781

CATALOG NUMBER: CLM-24-4-INS-P12125-LD4-1STD-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°	1841	1841	1841
5°	1767	1755	1755
10°	1645	1630	1643
15°	1561	1558	1573
20°	1504	1514	1526
25°	1461	1484	1493
30°	1425	1460	1469
35°	1401	1442	1456
40°	1376	1432	1444
45°	1348	1418	1435
50°	1318	1400	1419
55°	1281	1380	1386
60°	1235	1342	1339
65°	1171	1291	1282
70°	1093	1203	1189
75°	965	1066	1055
80°	784	869	826
85°	543	554	533



TEST NUMBER: P489781

CATALOG NUMBER: CLM-24-4-INS-P12125-LD4-1STD-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°	46.6	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°	1445.8	45.5
0°-60°	2530.1	79.6
0°-90°	3177.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3177.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1368	1368	1368	1368	1368	
5°	1308	1305	1299	1299	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: P489781

CATALOG NUMBER: CLM-24-4-INS-P12125-LD4-1STD-27-120-EDD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1368.0	1368.0	1368.0	1368.0	1368.0
2.5°	1356.0	1354.6	1350.2	1348.5	1348.1
5°	1308.5	1305.4	1299.2	1298.6	1299.2
7.5°	1251.7	1248.3	1242.2	1244.6	1247.6
10°	1203.9	1195.3	1192.9	1196.4	1202.2
12.5°	1161.1	1154.3	1152.3	1161.1	1165.3
15°	1120.5	1117.7	1118.4	1126.0	1129.4
17.5°	1085.3	1083.6	1088.0	1093.8	1095.5
20°	1050.1	1053.5	1057.6	1063.8	1065.8
22.5°	1015.5	1022.0	1028.9	1037.1	1034.3
25°	983.8	992.0	999.8	1008.0	1005.6
27.5°	949.9	959.5	970.4	979.3	975.9
30°	917.4	929.4	940.0	950.9	945.8
32.5°	885.3	896.6	909.2	922.6	916.8
35°	852.8	863.1	877.8	891.1	886.7
37.5°	817.0	829.6	846.3	858.0	854.9
40°	783.5	795.1	815.2	822.8	822.1
42.5°	749.6	759.2	780.4	788.9	787.6
45°	708.3	720.9	745.2	753.4	754.0
47.5°	671.7	682.3	708.3	714.7	716.1
50°	629.6	643.0	668.9	676.8	677.8
52.5°	588.3	602.6	629.3	634.7	635.8
55°	546.2	559.2	588.3	592.4	590.7
57.5°	502.1	517.9	544.5	546.6	548.3
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	402.7
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	253.0
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	67.4	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)