

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: P489784

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-1STD-35-120-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: P489784  
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-35-120-EDD-90  
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

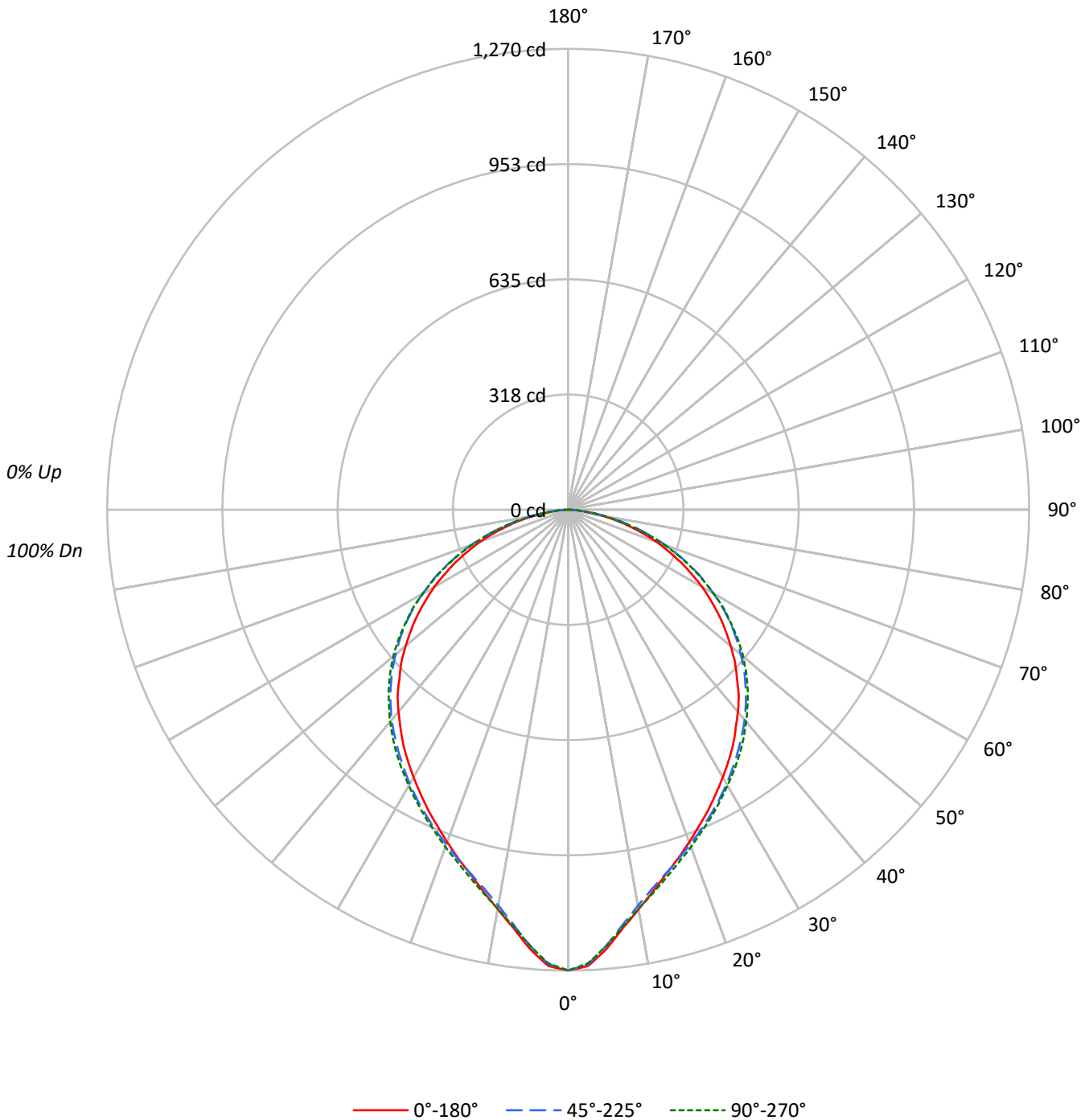
Lumens per Lamp: N/A  
Luminaire Lumens: 2949.2 lumens  
Efficiency: N/A  
Efficacy: 88.6 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 33.3  
Input Voltage (V): NR  
Input Current (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: P489784

CATALOG NUMBER: CLM-24-4-INS-P12125-LD4-1STD-35-120-EDD-90

### Luminous Intensity Polar Plot





TEST NUMBER: P489784

CATALOG NUMBER: CLM-24-4-INS-P12125-LD4-1STD-35-120-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	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°	1708	1708	1708
5°	1640	1629	1629
10°	1527	1513	1524
15°	1449	1446	1460
20°	1395	1405	1416
25°	1356	1378	1386
30°	1323	1356	1364
35°	1300	1338	1352
40°	1277	1329	1340
45°	1251	1316	1332
50°	1223	1300	1317
55°	1189	1281	1286
60°	1147	1246	1243
65°	1087	1198	1190
70°	1015	1117	1103
75°	896	990	980
80°	728	807	767
85°	505	514	494



TEST NUMBER: P489784

CATALOG NUMBER: CLM-24-4-INS-P12125-LD4-1STD-35-120-EDD-90

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.2	3.8
10°-20°	293.9	10.0
20°-30°	427.3	14.5
30°-40°	508.5	17.2
40°-50°	528.0	17.9
50°-60°	478.4	16.2
60°-70°	361.0	12.2
70°-80°	196.7	6.7
80°-90°	43.2	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°	833.4	28.3
0°-40°	1341.9	45.5
0°-60°	2348.3	79.6
0°-90°	2949.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2949.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1270	1270	1270	1270	1270	
5°	1214	1212	1206	1205	1206	113
15°	1040	1037	1038	1045	1048	294
25°	913	921	928	936	933	421
35°	792	801	815	827	823	495
45°	657	669	692	699	700	508
55°	507	519	546	550	548	453
65°	341	351	376	376	374	337
75°	172	179	190	192	188	184
85°	33	33	33	33	32	41
90°	0	0	0	0	0	



TEST NUMBER: P489784

CATALOG NUMBER: CLM-24-4-INS-P12125-LD4-1STD-35-120-EDD-90

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1269.7	1269.7	1269.7	1269.7	1269.7
2.5°	1258.6	1257.3	1253.2	1251.6	1251.3
5°	1214.5	1211.6	1205.9	1205.3	1205.9
7.5°	1161.8	1158.6	1152.9	1155.1	1158.0
10°	1117.4	1109.5	1107.2	1110.4	1115.8
12.5°	1077.7	1071.4	1069.5	1077.7	1081.5
15°	1040.0	1037.4	1038.1	1045.1	1048.2
17.5°	1007.3	1005.7	1009.8	1015.2	1016.8
20°	974.6	977.8	981.6	987.3	989.2
22.5°	942.6	948.6	955.0	962.6	960.0
25°	913.1	920.7	928.0	935.6	933.4
27.5°	881.7	890.5	900.7	909.0	905.8
30°	851.5	862.6	872.5	882.6	877.9
32.5°	821.7	832.2	843.9	856.3	850.9
35°	791.6	801.1	814.7	827.1	823.0
37.5°	758.3	770.0	785.5	796.3	793.5
40°	727.2	738.0	756.7	763.7	763.0
42.5°	695.7	704.6	724.3	732.2	731.0
45°	657.4	669.1	691.6	699.3	699.9
47.5°	623.4	633.3	657.4	663.4	664.7
50°	584.4	596.8	620.9	628.2	629.1
52.5°	546.0	559.3	584.1	589.1	590.1
55°	507.0	519.0	546.0	549.8	548.2
57.5°	466.1	480.6	505.4	507.3	508.9
60°	426.1	438.8	462.9	465.4	461.9
62.5°	382.6	395.6	420.4	421.0	418.1
65°	341.4	351.2	376.3	375.6	373.7
67.5°	298.2	310.3	328.7	329.3	327.7
70°	257.9	266.2	283.9	284.3	280.5
72.5°	214.5	223.3	237.6	235.7	234.8
75°	172.3	179.3	190.4	191.6	188.5
77.5°	133.6	138.6	146.9	146.0	142.4
80°	93.9	98.0	104.1	102.8	99.0
82.5°	59.9	62.5	66.3	64.7	63.1
85°	32.7	33.0	33.3	33.0	32.0
87.5°	12.1	12.4	12.4	12.1	11.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)