

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: P489888

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-4STD-27-120-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: P489888  
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-LD4-4STD-27-120-EDD-90  
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

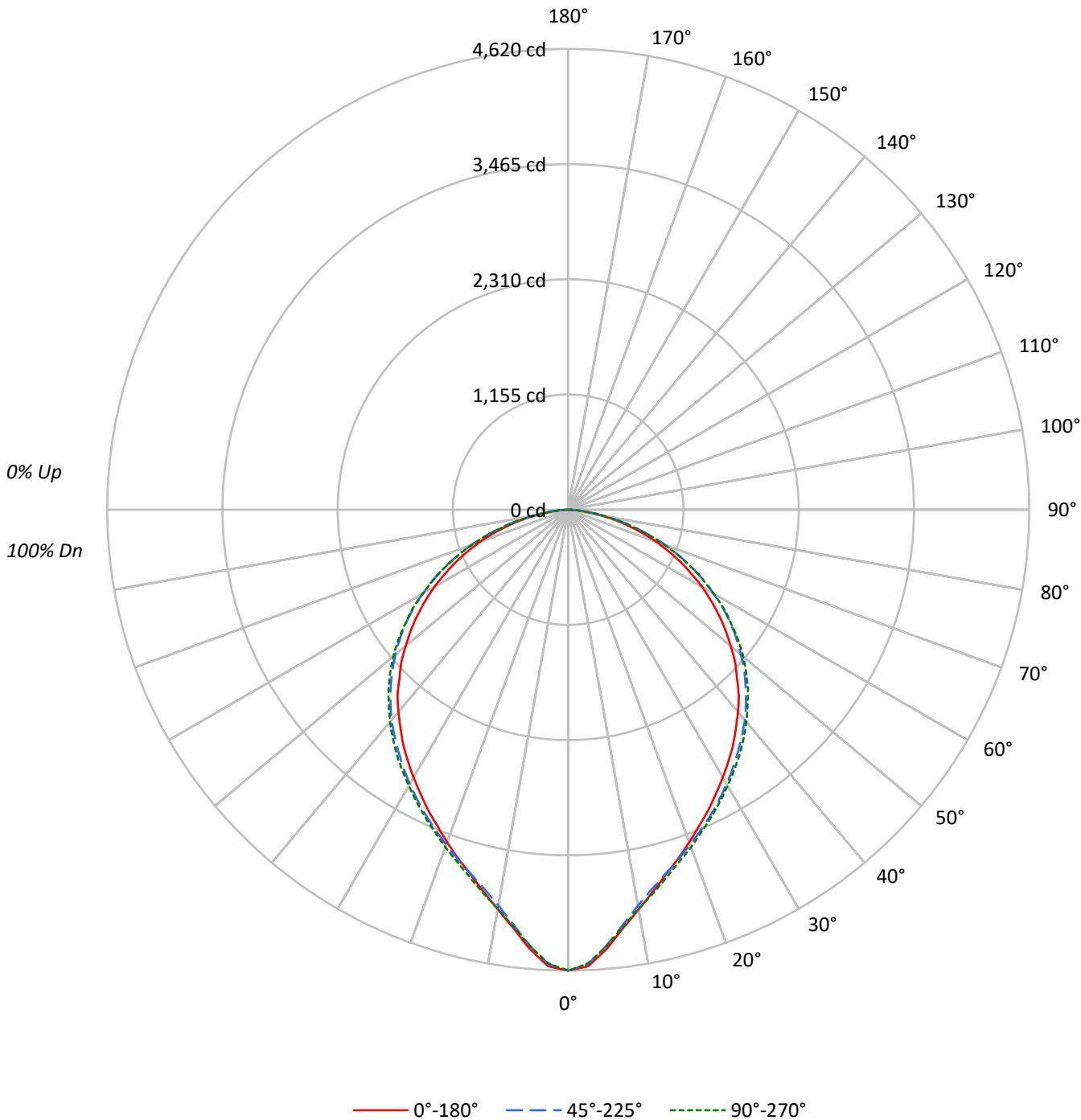
Lumens per Lamp: N/A  
Luminaire Lumens: 10732.0 lumens  
Efficiency: N/A  
Efficacy: 80.6 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 133.2  
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: P489888  
CATALOG NUMBER: CLM-24-4-INS-P12125-LD4-4STD-27-120-EDD-90

### Luminous Intensity Polar Plot





TEST NUMBER: P489888

CATALOG NUMBER: CLM-24-4-INS-P12125-LD4-4STD-27-120-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°	6217	6217	6217
5°	5969	5927	5927
10°	5555	5505	5547
15°	5271	5262	5313
20°	5078	5115	5154
25°	4933	5013	5043
30°	4814	4933	4963
35°	4731	4870	4919
40°	4648	4836	4877
45°	4552	4789	4846
50°	4451	4729	4792
55°	4328	4661	4680
60°	4172	4533	4524
65°	3955	4359	4330
70°	3692	4065	4015
75°	3259	3601	3565
80°	2648	2934	2791
85°	1836	1871	1800



TEST NUMBER: P489888

CATALOG NUMBER: CLM-24-4-INS-P12125-LD4-4STD-27-120-EDD-90

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	408.3	3.8
10°-20°	1069.4	10.0
20°-30°	1555.1	14.5
30°-40°	1850.5	17.2
40°-50°	1921.5	17.9
50°-60°	1740.7	16.2
60°-70°	1313.6	12.2
70°-80°	715.7	6.7
80°-90°	157.3	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°	3032.7	28.3
0°-40°	4883.2	45.5
0°-60°	8545.5	79.6
0°-90°	10732.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10732.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4620	4620	4620	4620	4620	
5°	4419	4409	4388	4386	4388	410
15°	3784	3775	3778	3803	3814	1068
25°	3323	3350	3377	3405	3397	1531
35°	2880	2915	2965	3010	2995	1801
45°	2392	2435	2517	2544	2547	1849
55°	1845	1889	1987	2001	1995	1647
65°	1242	1278	1369	1367	1360	1228
75°	627	652	693	697	686	668
85°	119	120	121	120	117	150
90°	0	0	0	0	0	

TEST NUMBER: P489888

CATALOG NUMBER: CLM-24-4-INS-P12125-LD4-4STD-27-120-EDD-90

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4620.3	4620.3	4620.3	4620.3	4620.3
2.5°	4579.9	4575.3	4560.2	4554.4	4553.3
5°	4419.4	4409.0	4388.2	4386.0	4388.2
7.5°	4227.8	4216.2	4195.5	4203.5	4213.9
10°	4066.1	4037.3	4029.1	4040.7	4060.3
12.5°	3921.8	3898.7	3891.7	3921.8	3935.7
15°	3784.4	3775.2	3777.5	3802.9	3814.4
17.5°	3665.5	3659.8	3674.8	3694.4	3700.2
20°	3546.6	3558.2	3572.0	3592.8	3599.7
22.5°	3430.0	3451.9	3475.1	3502.7	3493.5
25°	3322.7	3350.3	3376.9	3404.6	3396.6
27.5°	3208.3	3240.6	3277.6	3307.6	3296.1
30°	3098.6	3139.0	3174.9	3211.8	3194.5
32.5°	2990.2	3028.3	3070.9	3116.0	3096.4
35°	2880.5	2915.1	2964.8	3009.8	2994.8
37.5°	2759.3	2802.0	2858.5	2897.7	2887.4
40°	2646.1	2685.4	2753.5	2778.9	2776.5
42.5°	2531.8	2564.2	2635.7	2664.6	2660.0
45°	2392.1	2434.8	2516.8	2544.5	2546.8
47.5°	2268.6	2304.4	2392.1	2414.0	2418.6
50°	2126.6	2171.6	2259.4	2285.9	2289.4
52.5°	1986.8	2035.3	2125.4	2143.9	2147.4
55°	1844.8	1888.7	1986.8	2000.8	1995.0
57.5°	1696.0	1749.1	1839.1	1846.0	1851.8
60°	1550.4	1596.7	1684.4	1693.6	1681.0
62.5°	1392.3	1439.6	1529.7	1532.0	1521.6
65°	1242.2	1278.0	1369.2	1366.9	1360.0
67.5°	1085.2	1129.0	1196.1	1198.3	1192.6
70°	938.6	968.6	1033.3	1034.4	1020.6
72.5°	780.5	812.8	864.7	857.8	854.4
75°	626.9	652.3	692.7	697.3	685.8
77.5°	486.1	504.5	534.5	531.1	518.3
80°	341.7	356.7	378.7	374.1	360.2
82.5°	218.2	227.5	241.3	235.5	229.7
85°	118.9	120.0	121.2	120.0	116.6
87.5°	43.9	45.0	45.0	43.9	40.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)