

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: P489919

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-5LO-40-120-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: P489919
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-LD4-5LO-40-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

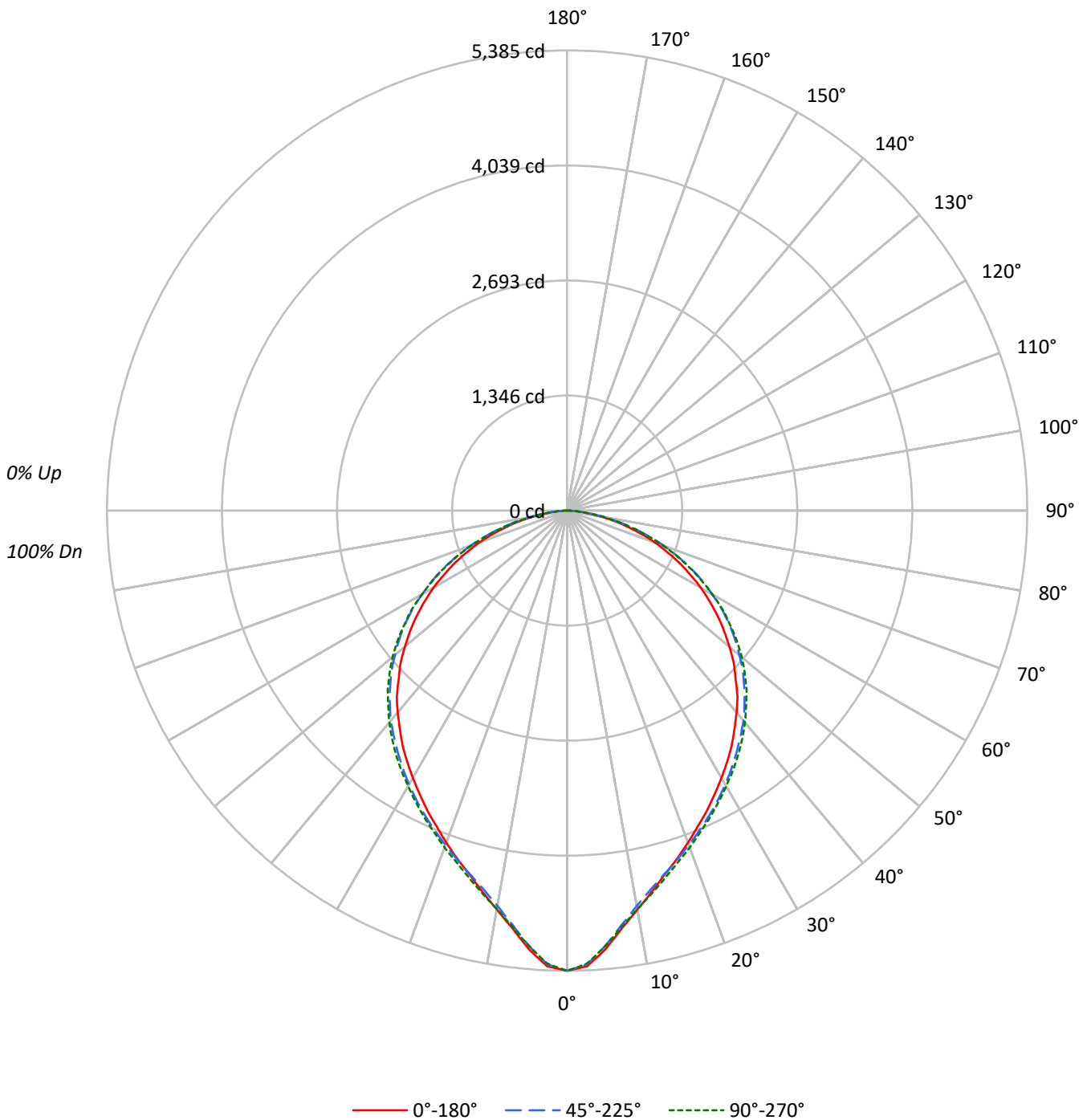
Lumens per Lamp: N/A
Luminaire Lumens: 12507.6 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 117
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: P489919

CATALOG NUMBER: CLM-24-4-INS-P12125-LD4-5LO-40-120-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P489919

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7245	7245	7245
5°	6957	6907	6907
10°	6475	6415	6465
15°	6144	6132	6192
20°	5918	5961	6007
25°	5749	5843	5877
30°	5611	5749	5784
35°	5514	5675	5733
40°	5417	5636	5684
45°	5305	5581	5648
50°	5188	5512	5585
55°	5044	5432	5454
60°	4863	5283	5272
65°	4609	5080	5046
70°	4303	4737	4679
75°	3798	4197	4155
80°	3085	3420	3252
85°	2140	2180	2098



TEST NUMBER: P489919

CATALOG NUMBER: CLM-24-4-INS-P12125-LD4-5LO-40-120-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	475.8	3.8
10°-20°	1246.3	10.0
20°-30°	1812.4	14.5
30°-40°	2156.7	17.2
40°-50°	2239.4	17.9
50°-60°	2028.8	16.2
60°-70°	1530.9	12.2
70°-80°	834.1	6.7
80°-90°	183.3	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°	3534.5	28.3
0°-40°	5691.2	45.5
0°-60°	9959.3	79.6
0°-90°	12507.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12507.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5385	5385	5385	5385	5385	
5°	5151	5138	5114	5112	5114	478
15°	4410	4400	4402	4432	4446	1245
25°	3872	3905	3936	3968	3958	1784
35°	3357	3397	3455	3508	3490	2099
45°	2788	2838	2933	2966	2968	2155
55°	2150	2201	2316	2332	2325	1920
65°	1448	1490	1596	1593	1585	1431
75°	731	760	807	813	799	778
85°	139	140	141	140	136	175
90°	0	0	0	0	0	



TEST NUMBER: P489919

CATALOG NUMBER: CLM-24-4-INS-P12125-LD4-5LO-40-120-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5384.7	5384.7	5384.7	5384.7	5384.7
2.5°	5337.6	5332.2	5314.7	5308.0	5306.6
5°	5150.6	5138.5	5114.2	5111.6	5114.2
7.5°	4927.2	4913.7	4889.6	4899.0	4911.1
10°	4738.9	4705.2	4695.7	4709.2	4732.1
12.5°	4570.6	4543.7	4535.6	4570.6	4586.9
15°	4410.5	4399.8	4402.5	4432.1	4445.5
17.5°	4272.0	4265.3	4282.8	4305.6	4312.4
20°	4133.4	4146.9	4163.0	4187.3	4195.3
22.5°	3997.5	4023.0	4050.0	4082.3	4071.5
25°	3872.4	3904.6	3935.6	3967.9	3958.5
27.5°	3739.1	3776.8	3819.9	3854.9	3841.4
30°	3611.3	3658.4	3700.1	3743.1	3723.0
32.5°	3484.9	3529.3	3579.0	3631.5	3608.6
35°	3357.0	3397.4	3455.3	3507.8	3490.3
37.5°	3215.8	3265.5	3331.4	3377.2	3365.2
40°	3083.9	3129.7	3209.0	3238.7	3235.9
42.5°	2950.7	2988.4	3071.8	3105.4	3100.0
45°	2787.9	2837.7	2933.2	2965.5	2968.2
47.5°	2643.9	2685.7	2787.9	2813.4	2818.8
50°	2478.4	2530.9	2633.2	2664.1	2668.2
52.5°	2315.6	2372.1	2477.1	2498.6	2502.7
55°	2150.1	2201.2	2315.6	2331.8	2325.1
57.5°	1976.6	2038.4	2143.4	2151.4	2158.2
60°	1807.0	1860.8	1963.1	1973.8	1959.1
62.5°	1622.7	1677.8	1782.8	1785.5	1773.3
65°	1447.7	1489.5	1595.7	1593.1	1585.0
67.5°	1264.7	1315.8	1394.0	1396.6	1390.0
70°	1093.8	1128.8	1204.2	1205.6	1189.5
72.5°	909.6	947.2	1007.7	999.7	995.7
75°	730.6	760.2	807.3	812.7	799.2
77.5°	566.5	588.0	623.0	619.0	604.1
80°	398.2	415.7	441.4	436.0	419.7
82.5°	254.2	265.1	281.2	274.5	267.7
85°	138.6	139.9	141.2	139.9	135.9
87.5°	51.1	52.5	52.5	51.1	47.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)