

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: P489517

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-4LO-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: P489517
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-115-8)
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-A12125-LD4-4LO-27-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

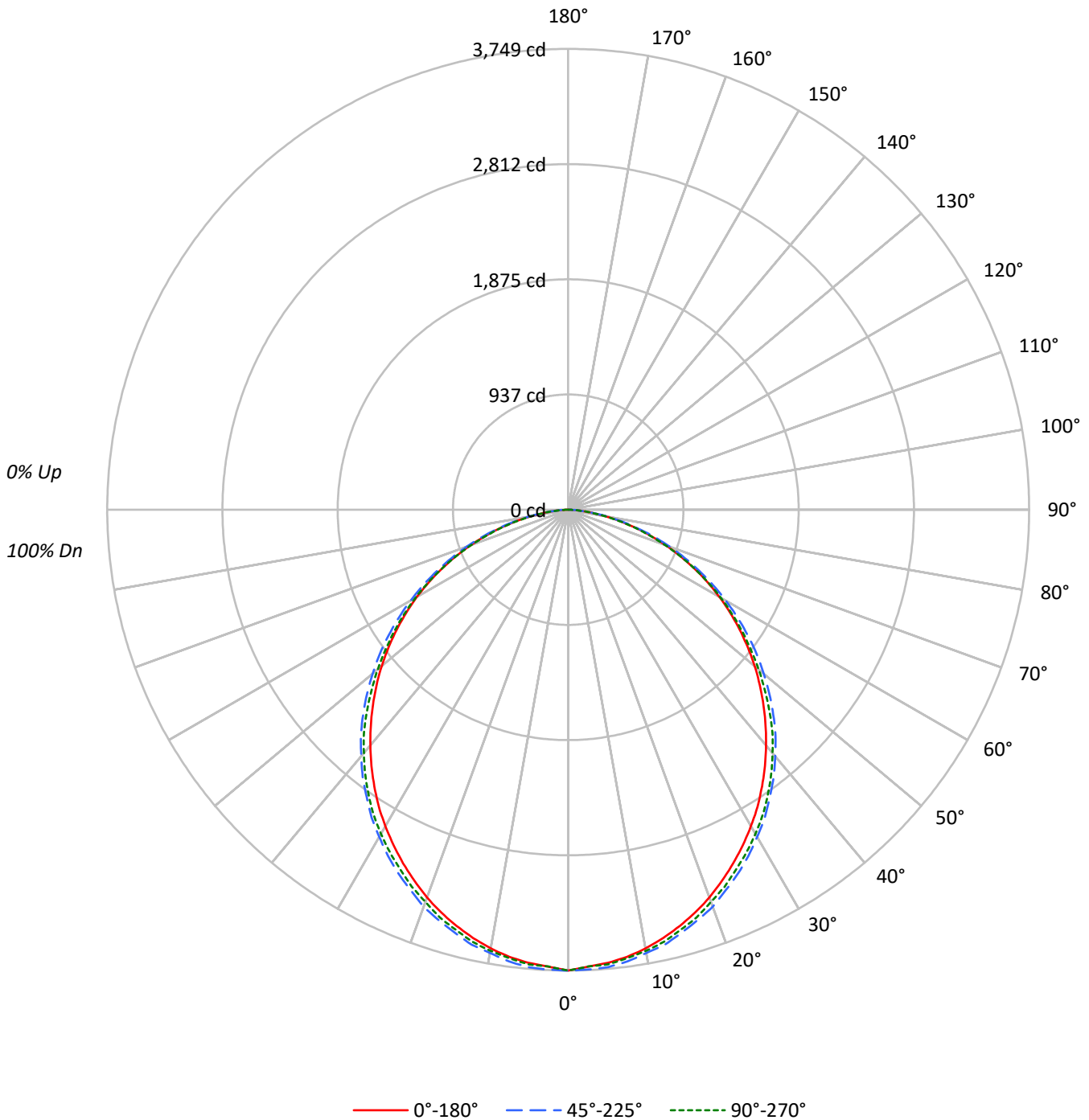
Lumens per Lamp: N/A
Luminaire Lumens: 9857.4 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 93.6
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: P489517

CATALOG NUMBER: CLM-24-4-INS-A12125-LD4-4LO-27-120-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P489517

CATALOG NUMBER: CLM-24-4-INS-A12125-LD4-4LO-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	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	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85					85			
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71					71			
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60					60			
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51					51			
5	77	64	55	48	75	63	54	48	61	53	48	59	52	47	57	51	47	45					45			
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39					39			
7	66	52	44	38	64	51	43	37	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31					31			
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5045	5045	5045
5°	4998	5045	5014
10°	4952	5003	4978
15°	4884	4963	4928
20°	4807	4921	4862
25°	4713	4850	4794
30°	4618	4775	4731
35°	4514	4693	4649
40°	4397	4599	4541
45°	4273	4489	4404
50°	4145	4345	4232
55°	3994	4181	4053
60°	3824	3983	3860
65°	3604	3742	3607
70°	3316	3450	3279
75°	2920	3052	2876
80°	2373	2476	2345
85°	1652	1761	1718



TEST NUMBER: P489517

CATALOG NUMBER: CLM-24-4-INS-A12125-LD4-4LO-27-120-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	353.1	3.6
10°-20°	1000.7	10.2
20°-30°	1492.5	15.1
30°-40°	1768.6	17.9
40°-50°	1789.5	18.2
50°-60°	1562.9	15.9
60°-70°	1142.1	11.6
70°-80°	607.7	6.2
80°-90°	140.4	1.4
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°	2846.2	28.9
0°-40°	4614.8	46.8
0°-60°	7967.2	80.8
0°-90°	9857.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9857.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3749	3749	3749	3749	3749	
5°	3701	3708	3735	3744	3712	351
15°	3506	3530	3563	3584	3538	988
25°	3175	3214	3267	3279	3230	1463
35°	2748	2791	2857	2877	2831	1719
45°	2246	2286	2359	2361	2315	1733
55°	1703	1737	1782	1757	1728	1522
65°	1132	1155	1175	1152	1133	1120
75°	562	575	587	566	553	597
85°	107	109	114	115	111	136
90°	0	0	0	0	0	



TEST NUMBER: P489517

CATALOG NUMBER: CLM-24-4-INS-A12125-LD4-4LO-27-120-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3749.4	3749.4	3749.4	3749.4	3749.4
2.5°	3720.1	3732.2	3744.7	3750.2	3719.7
5°	3700.6	3707.6	3735.3	3743.9	3712.3
7.5°	3668.5	3679.1	3706.0	3709.9	3679.5
10°	3624.8	3643.5	3661.5	3681.0	3643.9
12.5°	3568.9	3594.3	3624.8	3628.3	3600.2
15°	3506.0	3529.5	3562.7	3584.2	3537.7
17.5°	3435.7	3458.4	3501.3	3505.3	3477.1
20°	3357.2	3385.3	3436.9	3445.9	3395.5
22.5°	3268.1	3306.0	3349.0	3357.6	3320.5
25°	3174.8	3213.8	3267.0	3279.1	3229.5
27.5°	3077.1	3114.6	3174.4	3183.0	3141.2
30°	2972.4	3007.6	3073.2	3087.7	3045.1
32.5°	2866.2	2901.3	2974.0	2986.1	2944.7
35°	2748.2	2791.2	2857.2	2877.1	2830.6
37.5°	2627.9	2669.7	2744.7	2762.6	2712.6
40°	2503.2	2544.7	2618.5	2633.3	2585.3
42.5°	2375.9	2417.3	2496.2	2498.6	2458.7
45°	2245.8	2285.7	2359.1	2361.1	2314.6
47.5°	2113.8	2154.0	2219.6	2212.2	2168.5
50°	1980.2	2018.5	2075.9	2061.0	2021.6
52.5°	1841.9	1879.0	1933.3	1909.1	1872.0
55°	1702.8	1737.2	1782.5	1756.7	1727.8
57.5°	1562.6	1597.3	1632.1	1605.9	1580.9
60°	1421.2	1451.6	1480.2	1453.6	1434.4
62.5°	1277.4	1303.6	1328.2	1302.8	1284.8
65°	1132.1	1155.1	1175.4	1152.0	1132.9
67.5°	987.5	1007.1	1025.8	1001.6	981.7
70°	843.0	859.8	877.0	852.0	833.6
72.5°	700.4	715.3	730.5	706.3	690.3
75°	561.7	574.6	587.1	565.7	553.2
77.5°	429.3	440.3	448.9	435.2	423.1
80°	306.3	314.5	319.5	314.1	302.7
82.5°	196.9	202.7	205.5	205.1	197.7
85°	107.0	109.0	114.1	115.2	111.3
87.5°	41.4	44.1	45.3	48.8	44.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)