

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: P489493

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-3STD-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: P489493
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-LD4-3STD-27-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

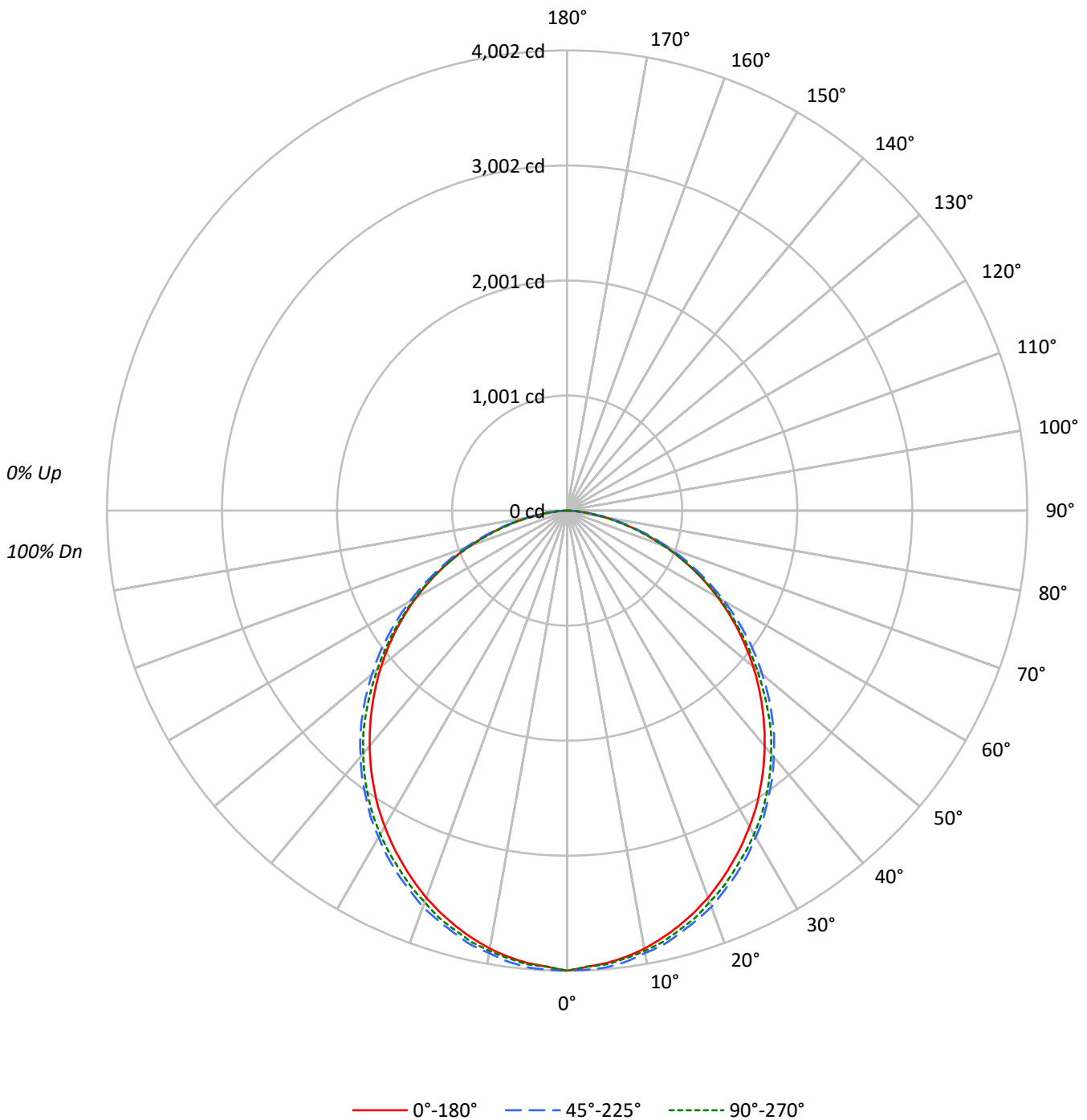
Lumens per Lamp: N/A
Luminaire Lumens: 10520.8 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 99.9
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: P489493

CATALOG NUMBER: CLM-24-4-INS-A12125-LD4-3STD-27-120-EDD

Luminous Intensity Polar Plot





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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5384	5384	5384
5°	5334	5385	5351
10°	5286	5339	5314
15°	5212	5297	5260
20°	5130	5252	5189
25°	5030	5176	5117
30°	4929	5096	5049
35°	4818	5009	4962
40°	4693	4909	4846
45°	4561	4791	4701
50°	4424	4638	4516
55°	4263	4463	4326
60°	4082	4251	4120
65°	3847	3994	3849
70°	3539	3682	3500
75°	3117	3258	3069
80°	2533	2643	2503
85°	1763	1879	1834



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	376.9	3.6
10°-20°	1068.0	10.2
20°-30°	1592.9	15.1
30°-40°	1887.6	17.9
40°-50°	1910.0	18.2
50°-60°	1668.1	15.9
60°-70°	1219.0	11.6
70°-80°	648.6	6.2
80°-90°	149.9	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°	3037.8	28.9
0°-40°	4925.4	46.8
0°-60°	8503.4	80.8
0°-90°	10520.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10520.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4002	4002	4002	4002	4002	
5°	3950	3957	3987	3996	3962	375
15°	3742	3767	3802	3825	3776	1055
25°	3388	3430	3487	3500	3447	1561
35°	2933	2979	3050	3071	3021	1834
45°	2397	2440	2518	2520	2470	1849
55°	1817	1854	1902	1875	1844	1625
65°	1208	1233	1255	1230	1209	1196
75°	600	613	627	604	590	637
85°	114	116	122	123	119	145
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4001.7	4001.7	4001.7	4001.7	4001.7
2.5°	3970.5	3983.4	3996.7	4002.6	3970.1
5°	3949.6	3957.1	3986.7	3995.9	3962.1
7.5°	3915.4	3926.7	3955.5	3959.6	3927.1
10°	3868.7	3888.7	3907.9	3928.8	3889.2
12.5°	3809.1	3836.2	3868.7	3872.5	3842.5
15°	3742.0	3767.0	3802.4	3825.4	3775.8
17.5°	3666.9	3691.1	3737.0	3741.2	3711.1
20°	3583.1	3613.2	3668.2	3677.8	3624.0
22.5°	3488.1	3528.5	3574.4	3583.6	3543.9
25°	3388.4	3430.1	3486.8	3499.7	3446.8
27.5°	3284.2	3324.2	3388.0	3397.2	3352.6
30°	3172.5	3210.0	3280.0	3295.5	3250.0
32.5°	3059.0	3096.6	3174.1	3187.0	3142.9
35°	2933.1	2979.0	3049.5	3070.7	3021.1
37.5°	2804.7	2849.3	2929.4	2948.6	2895.2
40°	2671.7	2715.9	2794.7	2810.6	2759.3
42.5°	2535.8	2580.0	2664.2	2666.7	2624.2
45°	2397.0	2439.5	2517.9	2520.0	2470.3
47.5°	2256.0	2299.0	2369.0	2361.1	2314.4
50°	2113.4	2154.3	2215.6	2199.7	2157.6
52.5°	1965.8	2005.5	2063.4	2037.6	1998.0
55°	1817.4	1854.1	1902.5	1875.0	1844.1
57.5°	1667.7	1704.8	1742.0	1714.0	1687.3
60°	1516.8	1549.3	1579.8	1551.4	1531.0
62.5°	1363.4	1391.3	1417.6	1390.5	1371.3
65°	1208.3	1232.9	1254.6	1229.5	1209.1
67.5°	1054.0	1074.9	1094.9	1069.0	1047.8
70°	899.7	917.7	936.0	909.3	889.7
72.5°	747.6	763.4	779.7	753.8	736.7
75°	599.6	613.3	626.7	603.7	590.4
77.5°	458.2	469.9	479.1	464.5	451.5
80°	326.9	335.6	341.1	335.2	323.1
82.5°	210.1	216.4	219.3	218.9	211.0
85°	114.2	116.3	121.7	123.0	118.8
87.5°	44.2	47.1	48.4	52.1	47.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)