

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: P489457

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-2STD-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: P489457
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-LD4-2STD-27-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

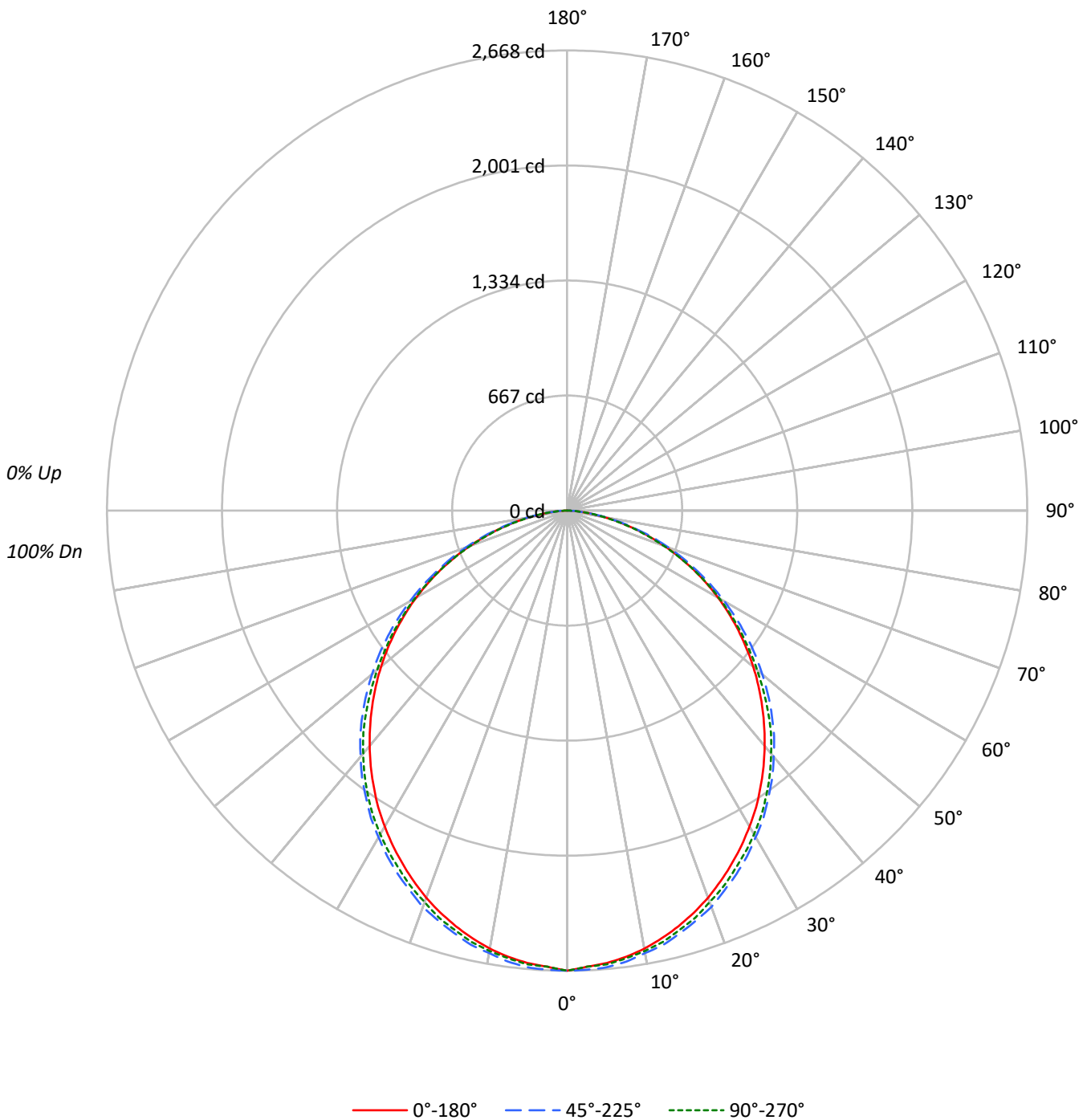
Lumens per Lamp: N/A
Luminaire Lumens: 7013.9 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 66.6
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

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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°	3589	3589	3589
5°	3556	3590	3568
10°	3524	3559	3542
15°	3475	3531	3506
20°	3420	3502	3459
25°	3354	3451	3411
30°	3286	3397	3366
35°	3212	3339	3308
40°	3129	3273	3231
45°	3041	3194	3134
50°	2949	3092	3011
55°	2842	2975	2884
60°	2721	2834	2747
65°	2564	2663	2566
70°	2360	2455	2334
75°	2078	2172	2046
80°	1688	1762	1669
85°	1176	1254	1223



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.3	3.6
10°-20°	712.0	10.2
20°-30°	1061.9	15.1
30°-40°	1258.4	17.9
40°-50°	1273.3	18.2
50°-60°	1112.1	15.9
60°-70°	812.6	11.6
70°-80°	432.4	6.2
80°-90°	99.9	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°	2025.2	28.9
0°-40°	3283.6	46.8
0°-60°	5669.0	80.8
0°-90°	7013.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7013.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2668	2668	2668	2668	2668	
5°	2633	2638	2658	2664	2641	250
15°	2495	2511	2535	2550	2517	703
25°	2259	2287	2325	2333	2298	1041
35°	1955	1986	2033	2047	2014	1223
45°	1598	1626	1679	1680	1647	1233
55°	1212	1236	1268	1250	1229	1083
65°	806	822	836	820	806	797
75°	400	409	418	402	394	425
85°	76	78	81	82	79	96
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2667.8	2667.8	2667.8	2667.8	2667.8
2.5°	2647.0	2655.6	2664.5	2668.4	2646.7
5°	2633.1	2638.1	2657.8	2663.9	2641.4
7.5°	2610.3	2617.8	2637.0	2639.8	2618.1
10°	2579.2	2592.5	2605.3	2619.2	2592.8
12.5°	2539.4	2557.5	2579.2	2581.7	2561.7
15°	2494.7	2511.3	2535.0	2550.3	2517.2
17.5°	2444.6	2460.8	2491.3	2494.1	2474.1
20°	2388.8	2408.8	2445.5	2451.9	2416.0
22.5°	2325.4	2352.4	2382.9	2389.0	2362.6
25°	2259.0	2286.8	2324.6	2333.2	2297.9
27.5°	2189.5	2216.2	2258.7	2264.8	2235.1
30°	2115.0	2140.0	2186.7	2197.0	2166.7
32.5°	2039.4	2064.4	2116.1	2124.7	2095.2
35°	1955.4	1986.0	2033.0	2047.2	2014.1
37.5°	1869.8	1899.6	1952.9	1965.7	1930.1
40°	1781.2	1810.6	1863.2	1873.7	1839.5
42.5°	1690.5	1720.0	1776.1	1777.8	1749.5
45°	1598.0	1626.3	1678.6	1680.0	1646.9
47.5°	1504.0	1532.7	1579.4	1574.1	1542.9
50°	1409.0	1436.2	1477.1	1466.5	1438.4
52.5°	1310.6	1337.0	1375.6	1358.4	1332.0
55°	1211.6	1236.1	1268.3	1250.0	1229.4
57.5°	1111.8	1136.6	1161.3	1142.7	1124.9
60°	1011.2	1032.9	1053.2	1034.3	1020.7
62.5°	908.9	927.5	945.1	927.0	914.2
65°	805.5	821.9	836.4	819.7	806.1
67.5°	702.7	716.6	729.9	712.7	698.5
70°	599.8	611.8	624.0	606.2	593.2
72.5°	498.4	508.9	519.8	502.5	491.2
75°	399.7	408.9	417.8	402.5	393.6
77.5°	305.5	313.3	319.4	309.6	301.0
80°	217.9	223.8	227.4	223.5	215.4
82.5°	140.1	144.3	146.2	145.9	140.6
85°	76.2	77.6	81.2	82.0	79.2
87.5°	29.5	31.4	32.2	34.7	32.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)