

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: P489487

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-3LO-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: P489487
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-LD4-3LO-40-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

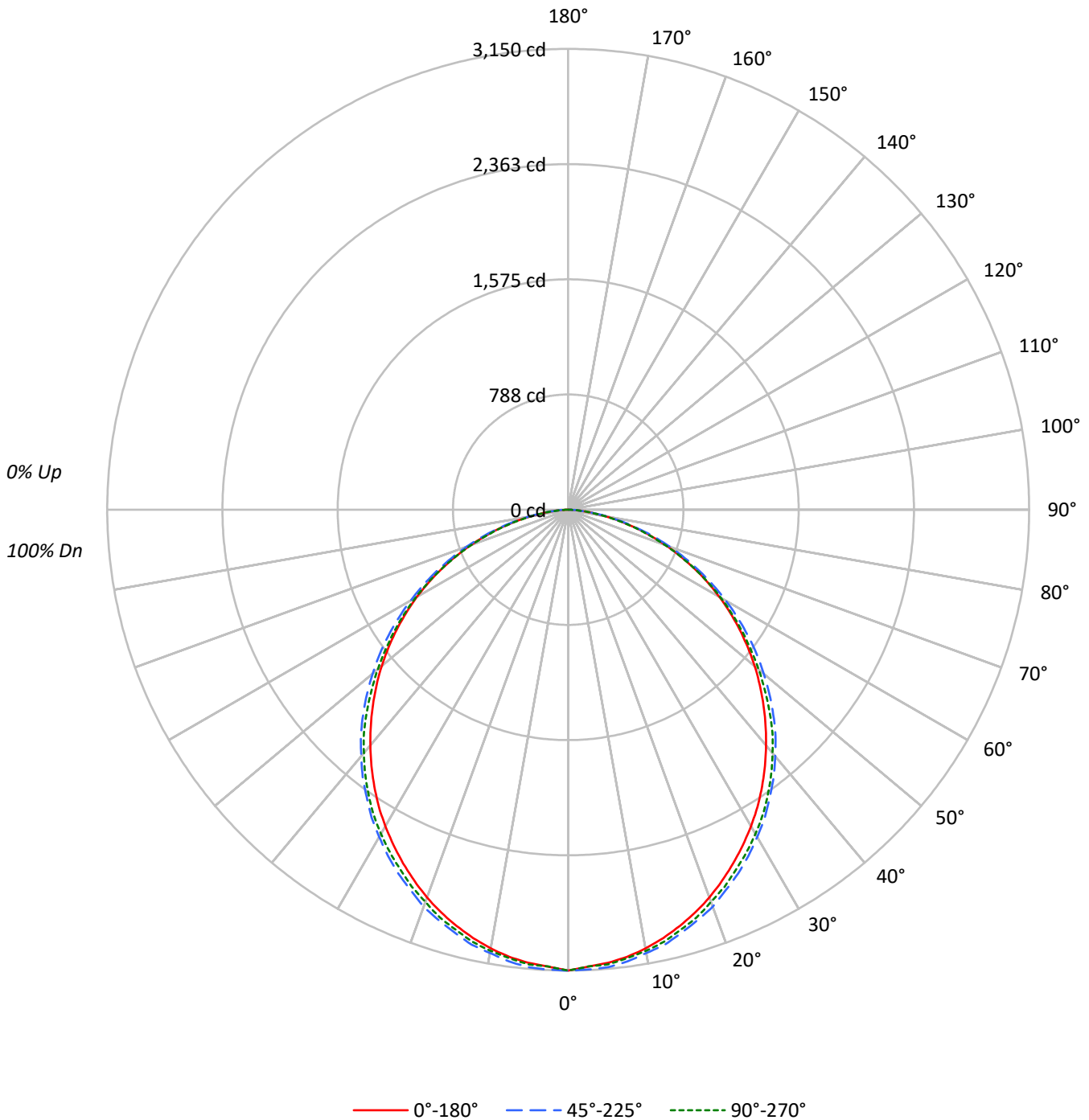
Lumens per Lamp: N/A
Luminaire Lumens: 8282.7 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 70.2
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°	4239	4239	4239
5°	4200	4239	4213
10°	4161	4203	4183
15°	4104	4170	4141
20°	4039	4135	4085
25°	3960	4075	4029
30°	3880	4012	3975
35°	3793	3943	3907
40°	3694	3864	3815
45°	3591	3772	3701
50°	3483	3651	3556
55°	3356	3514	3406
60°	3213	3347	3243
65°	3028	3145	3031
70°	2786	2899	2756
75°	2454	2564	2416
80°	1994	2080	1971
85°	1388	1479	1443



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.7	3.6
10°-20°	840.8	10.2
20°-30°	1254.0	15.1
30°-40°	1486.0	17.9
40°-50°	1503.6	18.2
50°-60°	1313.2	15.9
60°-70°	959.6	11.6
70°-80°	510.6	6.2
80°-90°	118.0	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°	2391.5	28.9
0°-40°	3877.6	46.8
0°-60°	6694.5	80.8
0°-90°	8282.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8282.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3150	3150	3150	3150	3150	
5°	3109	3115	3139	3146	3119	295
15°	2946	2966	2994	3012	2972	831
25°	2668	2700	2745	2755	2714	1229
35°	2309	2345	2401	2418	2378	1444
45°	1887	1920	1982	1984	1945	1456
55°	1431	1460	1498	1476	1452	1279
65°	951	971	988	968	952	941
75°	472	483	493	475	465	502
85°	90	92	96	97	94	114
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3150.4	3150.4	3150.4	3150.4	3150.4
2.5°	3125.8	3136.0	3146.5	3151.1	3125.5
5°	3109.4	3115.3	3138.6	3145.8	3119.3
7.5°	3082.5	3091.4	3114.0	3117.3	3091.7
10°	3045.7	3061.5	3076.6	3093.0	3061.8
12.5°	2998.8	3020.1	3045.7	3048.7	3025.1
15°	2946.0	2965.6	2993.5	3011.6	2972.5
17.5°	2886.9	2905.9	2942.0	2945.3	2921.7
20°	2820.9	2844.5	2887.9	2895.4	2853.1
22.5°	2746.1	2777.9	2814.0	2821.2	2790.0
25°	2667.6	2700.4	2745.1	2755.2	2713.6
27.5°	2585.5	2617.1	2667.3	2674.5	2639.4
30°	2497.6	2527.1	2582.3	2594.4	2558.6
32.5°	2408.3	2437.8	2498.9	2509.1	2474.3
35°	2309.2	2345.3	2400.7	2417.5	2378.4
37.5°	2208.1	2243.2	2306.2	2321.3	2279.3
40°	2103.4	2138.2	2200.2	2212.7	2172.3
42.5°	1996.4	2031.1	2097.5	2099.4	2065.9
45°	1887.0	1920.5	1982.2	1983.9	1944.8
47.5°	1776.1	1809.9	1865.1	1858.8	1822.1
50°	1663.8	1696.0	1744.3	1731.8	1698.6
52.5°	1547.7	1578.8	1624.5	1604.1	1572.9
55°	1430.8	1459.7	1497.8	1476.1	1451.8
57.5°	1313.0	1342.2	1371.4	1349.4	1328.4
60°	1194.1	1219.7	1243.7	1221.4	1205.3
62.5°	1073.3	1095.3	1116.0	1094.7	1079.6
65°	951.2	970.6	987.7	968.0	951.9
67.5°	829.8	846.2	862.0	841.6	824.9
70°	708.3	722.5	736.9	715.9	700.5
72.5°	588.5	601.0	613.8	593.5	580.0
75°	472.0	482.8	493.3	475.3	464.8
77.5°	360.7	369.9	377.1	365.7	355.5
80°	257.3	264.2	268.5	263.9	254.4
82.5°	165.4	170.4	172.7	172.3	166.1
85°	89.9	91.6	95.8	96.8	93.5
87.5°	34.8	37.1	38.1	41.0	37.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)