

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: P488636

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-3STD-50-120-EDD-90**

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: P488636
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-12-4-INS-A12125-LD4-3STD-50-120-EDD-90
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

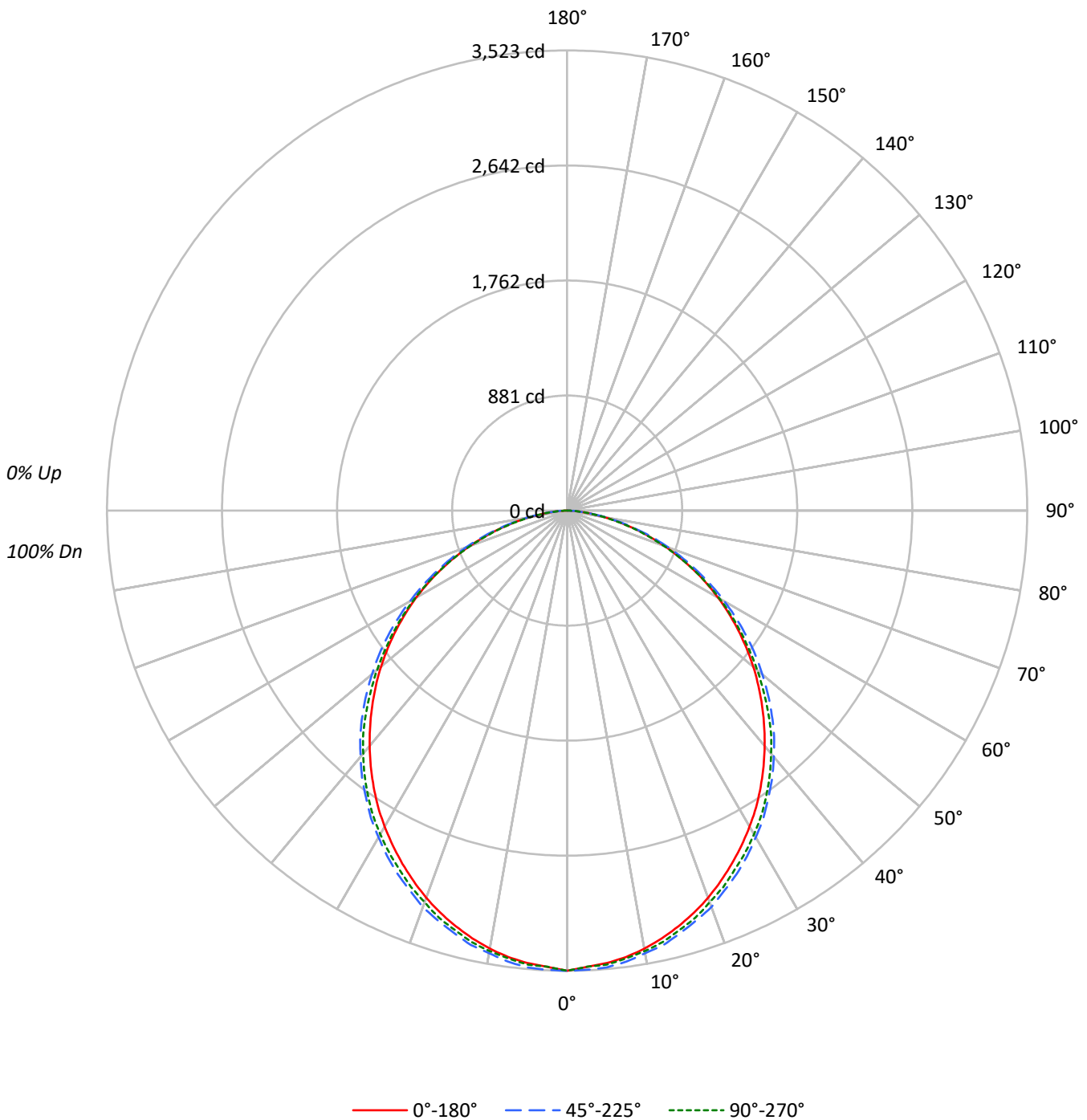
Lumens per Lamp: N/A
Luminaire Lumens: 9263.3 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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

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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	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°	9481	9481	9481
5°	9394	9482	9424
10°	9308	9402	9357
15°	9179	9327	9262
20°	9035	9249	9137
25°	8858	9116	9011
30°	8680	8974	8891
35°	8484	8820	8738
40°	8264	8644	8534
45°	8032	8437	8278
50°	7790	8167	7953
55°	7507	7859	7618
60°	7188	7486	7255
65°	6774	7033	6779
70°	6233	6484	6164
75°	5489	5737	5404
80°	4460	4654	4409
85°	3106	3310	3230



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.8	3.6
10°-20°	940.4	10.2
20°-30°	1402.5	15.1
30°-40°	1662.0	17.9
40°-50°	1681.7	18.2
50°-60°	1468.7	15.9
60°-70°	1073.2	11.6
70°-80°	571.1	6.2
80°-90°	132.0	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°	2674.7	28.9
0°-40°	4336.7	46.8
0°-60°	7487.0	80.8
0°-90°	9263.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9263.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3523	3523	3523	3523	3523	
5°	3478	3484	3510	3518	3489	330
15°	3295	3317	3348	3368	3324	929
25°	2983	3020	3070	3081	3035	1374
35°	2583	2623	2685	2704	2660	1615
45°	2110	2148	2217	2219	2175	1628
55°	1600	1632	1675	1651	1624	1430
65°	1064	1086	1105	1083	1065	1053
75°	528	540	552	532	520	561
85°	101	102	107	108	105	127
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3523.4	3523.4	3523.4	3523.4	3523.4
2.5°	3495.9	3507.3	3519.0	3524.2	3495.5
5°	3477.5	3484.1	3510.2	3518.3	3488.6
7.5°	3447.4	3457.4	3482.7	3486.4	3457.7
10°	3406.3	3423.9	3440.8	3459.2	3424.3
12.5°	3353.8	3377.7	3406.3	3409.6	3383.2
15°	3294.7	3316.8	3348.0	3368.1	3324.5
17.5°	3228.6	3249.9	3290.3	3294.0	3267.6
20°	3154.9	3181.3	3229.7	3238.2	3190.8
22.5°	3071.2	3106.8	3147.2	3155.2	3120.4
25°	2983.4	3020.1	3070.1	3081.4	3034.8
27.5°	2891.6	2926.9	2983.1	2991.1	2951.9
30°	2793.3	2826.3	2888.0	2901.6	2861.5
32.5°	2693.4	2726.5	2794.7	2806.1	2767.2
35°	2582.6	2622.9	2685.0	2703.7	2660.0
37.5°	2469.5	2508.8	2579.2	2596.1	2549.1
40°	2352.4	2391.3	2460.7	2474.6	2429.5
42.5°	2232.7	2271.6	2345.8	2348.0	2310.5
45°	2110.5	2147.9	2216.9	2218.8	2175.1
47.5°	1986.4	2024.2	2085.9	2078.9	2037.8
50°	1860.8	1896.8	1950.8	1936.8	1899.7
52.5°	1730.9	1765.8	1816.8	1794.0	1759.1
55°	1600.2	1632.5	1675.1	1650.9	1623.7
57.5°	1468.4	1501.1	1533.7	1509.1	1485.7
60°	1335.5	1364.1	1390.9	1366.0	1348.0
62.5°	1200.4	1225.0	1248.1	1224.3	1207.4
65°	1063.9	1085.5	1104.6	1082.6	1064.6
67.5°	928.0	946.4	964.0	941.2	922.5
70°	792.2	808.0	824.1	800.6	783.4
72.5°	658.2	672.2	686.5	663.7	648.7
75°	527.9	540.0	551.8	531.6	519.8
77.5°	403.4	413.7	421.8	408.9	397.6
80°	287.8	295.5	300.3	295.1	284.5
82.5°	185.0	190.5	193.1	192.7	185.8
85°	100.6	102.4	107.2	108.3	104.6
87.5°	38.9	41.5	42.6	45.9	42.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)