

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: P488603

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-3HI-20-120-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: P488603
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-LD4-3HI-20-120-EDD
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

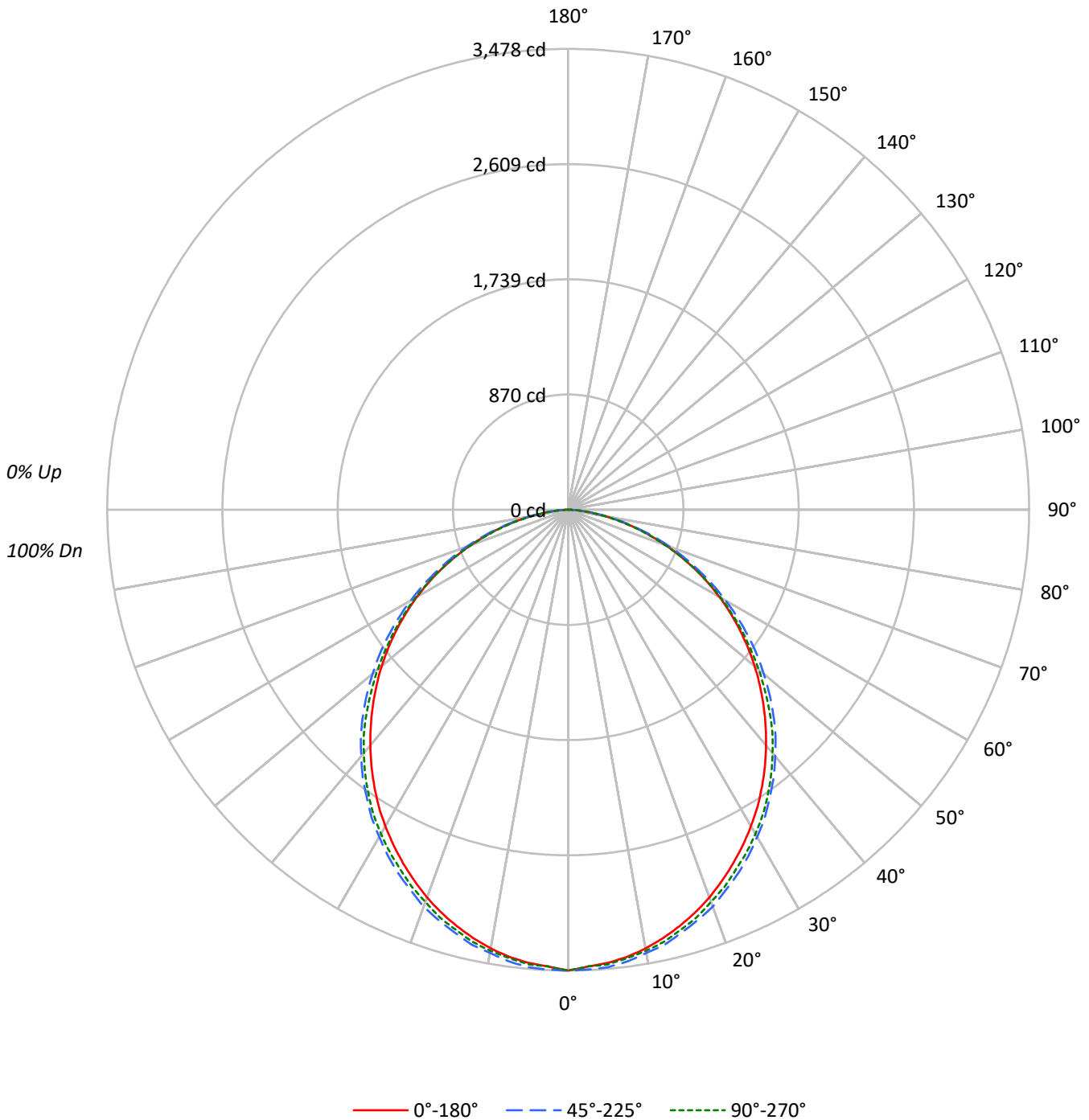
Lumens per Lamp: N/A
Luminaire Lumens: 9144.6 lumens
Efficiency: N/A
Efficacy: 70.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 129.6
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°	9360	9360	9360
5°	9273	9360	9303
10°	9189	9281	9237
15°	9061	9208	9143
20°	8919	9131	9020
25°	8745	8999	8895
30°	8568	8859	8778
35°	8375	8707	8626
40°	8157	8533	8425
45°	7929	8329	8171
50°	7690	8062	7851
55°	7411	7758	7520
60°	7096	7390	7162
65°	6687	6944	6691
70°	6153	6401	6085
75°	5418	5663	5336
80°	4403	4593	4353
85°	3066	3267	3189



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	327.6	3.6
10°-20°	928.3	10.2
20°-30°	1384.5	15.1
30°-40°	1640.7	17.9
40°-50°	1660.1	18.2
50°-60°	1449.9	15.9
60°-70°	1059.5	11.6
70°-80°	563.7	6.2
80°-90°	130.3	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°	2640.4	28.9
0°-40°	4281.1	46.8
0°-60°	7391.1	80.8
0°-90°	9144.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9144.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3478	3478	3478	3478	3478	
5°	3433	3440	3465	3473	3444	326
15°	3252	3274	3305	3325	3282	917
25°	2945	2981	3031	3042	2996	1357
35°	2550	2589	2651	2669	2626	1594
45°	2083	2120	2188	2190	2147	1607
55°	1580	1612	1654	1630	1603	1412
65°	1050	1072	1090	1069	1051	1039
75°	521	533	545	525	513	554
85°	99	101	106	107	103	126
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3478.3	3478.3	3478.3	3478.3	3478.3
2.5°	3451.1	3462.3	3473.9	3479.0	3450.7
5°	3433.0	3439.5	3465.2	3473.2	3443.9
7.5°	3403.3	3413.0	3438.1	3441.7	3413.4
10°	3362.7	3380.1	3396.7	3414.9	3380.4
12.5°	3310.9	3334.4	3362.7	3365.9	3339.8
15°	3252.5	3274.3	3305.1	3325.0	3281.9
17.5°	3187.3	3208.3	3248.2	3251.8	3225.7
20°	3114.4	3140.5	3188.4	3196.7	3149.9
22.5°	3031.8	3067.0	3106.8	3114.8	3080.4
25°	2945.2	2981.4	3030.7	3042.0	2995.9
27.5°	2854.6	2889.4	2944.8	2952.8	2914.0
30°	2757.5	2790.1	2851.0	2864.4	2824.9
32.5°	2658.9	2691.5	2758.9	2770.2	2731.7
35°	2549.5	2589.3	2650.6	2669.0	2625.9
37.5°	2437.8	2476.6	2546.2	2562.9	2516.5
40°	2322.2	2360.6	2429.1	2442.9	2398.3
42.5°	2204.1	2242.5	2315.7	2317.9	2280.9
45°	2083.4	2120.4	2188.5	2190.3	2147.2
47.5°	1960.9	1998.3	2059.1	2052.3	2011.7
50°	1837.0	1872.5	1925.8	1912.0	1875.4
52.5°	1708.7	1743.1	1793.5	1771.0	1736.6
55°	1579.7	1611.6	1653.6	1629.7	1602.9
57.5°	1449.6	1481.8	1514.1	1489.8	1466.6
60°	1318.4	1346.7	1373.1	1348.5	1330.7
62.5°	1185.0	1209.3	1232.1	1208.6	1191.9
65°	1050.2	1071.6	1090.5	1068.7	1050.9
67.5°	916.1	934.3	951.7	929.2	910.7
70°	782.1	797.6	813.6	790.4	773.4
72.5°	649.8	663.5	677.7	655.2	640.4
75°	521.1	533.1	544.7	524.7	513.2
77.5°	398.3	408.4	416.4	403.7	392.5
80°	284.1	291.7	296.4	291.4	280.9
82.5°	182.6	188.1	190.6	190.3	183.4
85°	99.3	101.1	105.8	106.9	103.3
87.5°	38.4	41.0	42.0	45.3	41.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)