

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: P488629

Luminaire Tested: **CLM-12-4-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: P488629
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-27-120-EDD
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

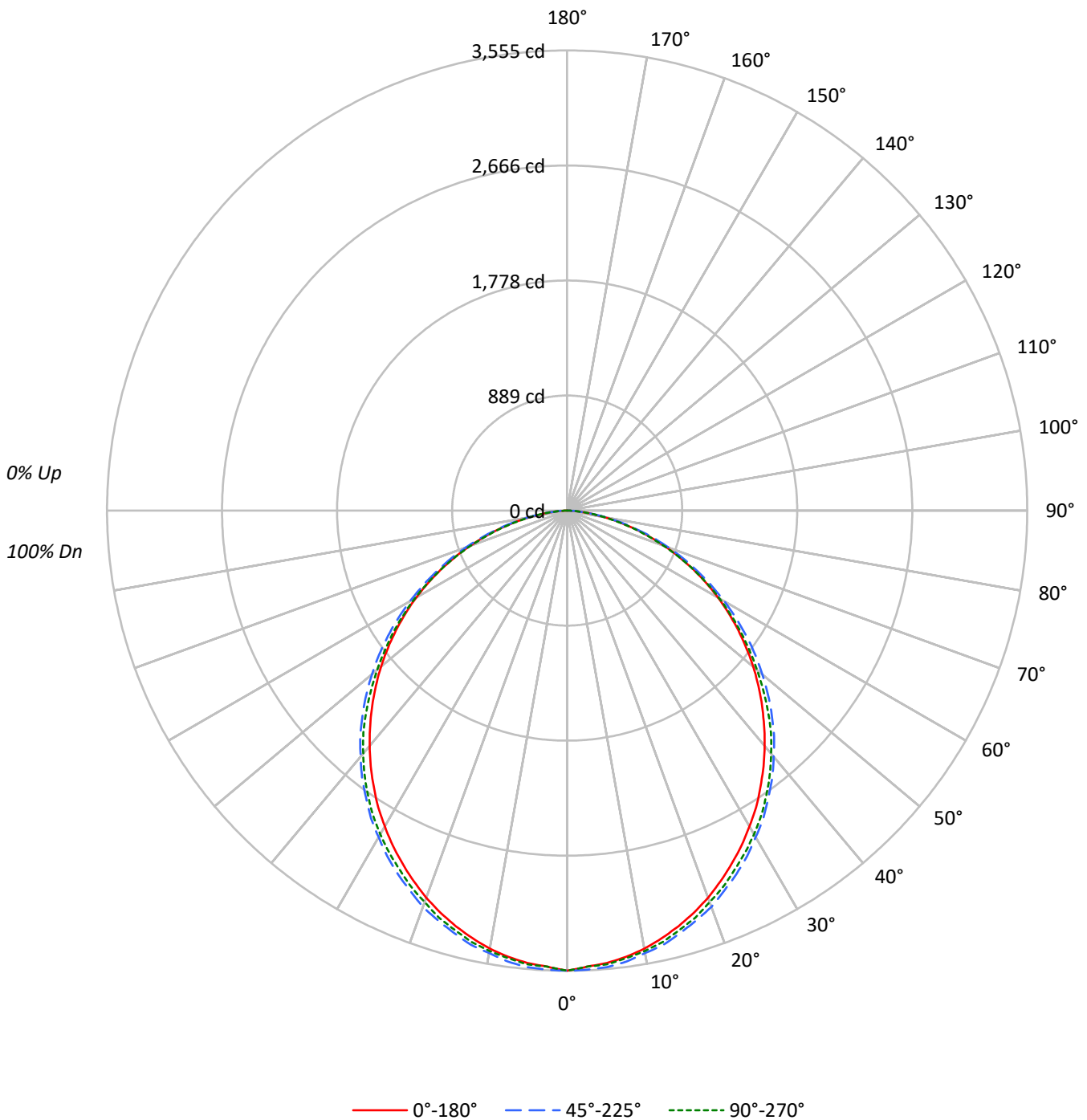
Lumens per Lamp: N/A
Luminaire Lumens: 9345.2 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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	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°	9565	9565	9565
5°	9477	9566	9507
10°	9390	9485	9440
15°	9260	9410	9344
20°	9115	9331	9218
25°	8937	9196	9091
30°	8756	9053	8970
35°	8559	8898	8816
40°	8337	8720	8610
45°	8103	8511	8351
50°	7859	8239	8023
55°	7574	7928	7685
60°	7251	7552	7319
65°	6834	7096	6839
70°	6288	6541	6218
75°	5538	5787	5452
80°	4500	4694	4448
85°	3134	3338	3257



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	334.8	3.6
10°-20°	948.7	10.2
20°-30°	1414.9	15.1
30°-40°	1676.7	17.9
40°-50°	1696.5	18.2
50°-60°	1481.7	15.9
60°-70°	1082.7	11.6
70°-80°	576.1	6.2
80°-90°	133.2	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°	2698.3	28.9
0°-40°	4375.0	46.8
0°-60°	7553.2	80.8
0°-90°	9345.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9345.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3555	3555	3555	3555	3555	
5°	3508	3515	3541	3549	3519	333
15°	3324	3346	3378	3398	3354	937
25°	3010	3047	3097	3109	3062	1387
35°	2605	2646	2709	2728	2684	1629
45°	2129	2167	2236	2238	2194	1643
55°	1614	1647	1690	1665	1638	1443
65°	1073	1095	1114	1092	1074	1062
75°	533	545	557	536	524	566
85°	102	103	108	109	106	129
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3554.6	3554.6	3554.6	3554.6	3554.6
2.5°	3526.8	3538.3	3550.1	3555.3	3526.4
5°	3508.3	3515.0	3541.2	3549.4	3519.4
7.5°	3477.9	3487.9	3513.5	3517.2	3488.3
10°	3436.4	3454.2	3471.3	3489.8	3454.6
12.5°	3383.5	3407.6	3436.4	3439.8	3413.1
15°	3323.9	3346.1	3377.6	3397.9	3353.9
17.5°	3257.2	3278.7	3319.4	3323.1	3296.5
20°	3182.8	3209.4	3258.3	3266.8	3219.0
22.5°	3098.3	3134.2	3175.0	3183.1	3147.9
25°	3009.8	3046.8	3097.2	3108.7	3061.7
27.5°	2917.2	2952.8	3009.4	3017.6	2978.0
30°	2818.0	2851.3	2913.5	2927.2	2886.8
32.5°	2717.2	2750.6	2819.4	2830.9	2791.7
35°	2605.4	2646.1	2708.7	2727.6	2683.5
37.5°	2491.3	2530.9	2602.1	2619.1	2571.7
40°	2373.2	2412.4	2482.4	2496.5	2451.0
42.5°	2252.4	2291.7	2366.5	2368.7	2331.0
45°	2129.1	2166.9	2236.5	2238.4	2194.3
47.5°	2003.9	2042.1	2104.3	2097.3	2055.8
50°	1877.3	1913.6	1968.0	1953.9	1916.5
52.5°	1746.2	1781.4	1832.8	1809.9	1774.7
55°	1614.3	1646.9	1689.9	1665.4	1638.0
57.5°	1481.4	1514.3	1547.3	1522.5	1498.8
60°	1347.3	1376.2	1403.2	1378.1	1359.9
62.5°	1211.0	1235.8	1259.2	1235.1	1218.1
65°	1073.3	1095.1	1114.4	1092.2	1074.0
67.5°	936.2	954.8	972.5	949.6	930.7
70°	799.2	815.1	831.4	807.7	790.3
72.5°	664.0	678.1	692.5	669.6	654.4
75°	532.6	544.8	556.6	536.3	524.4
77.5°	407.0	417.4	425.5	412.6	401.1
80°	290.4	298.1	302.9	297.8	287.0
82.5°	186.7	192.2	194.8	194.4	187.4
85°	101.5	103.3	108.1	109.3	105.5
87.5°	39.3	41.8	43.0	46.3	42.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)