

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: P488532

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-1HI-27-120-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: P488532
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-LD4-1HI-27-120-EDD-90
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

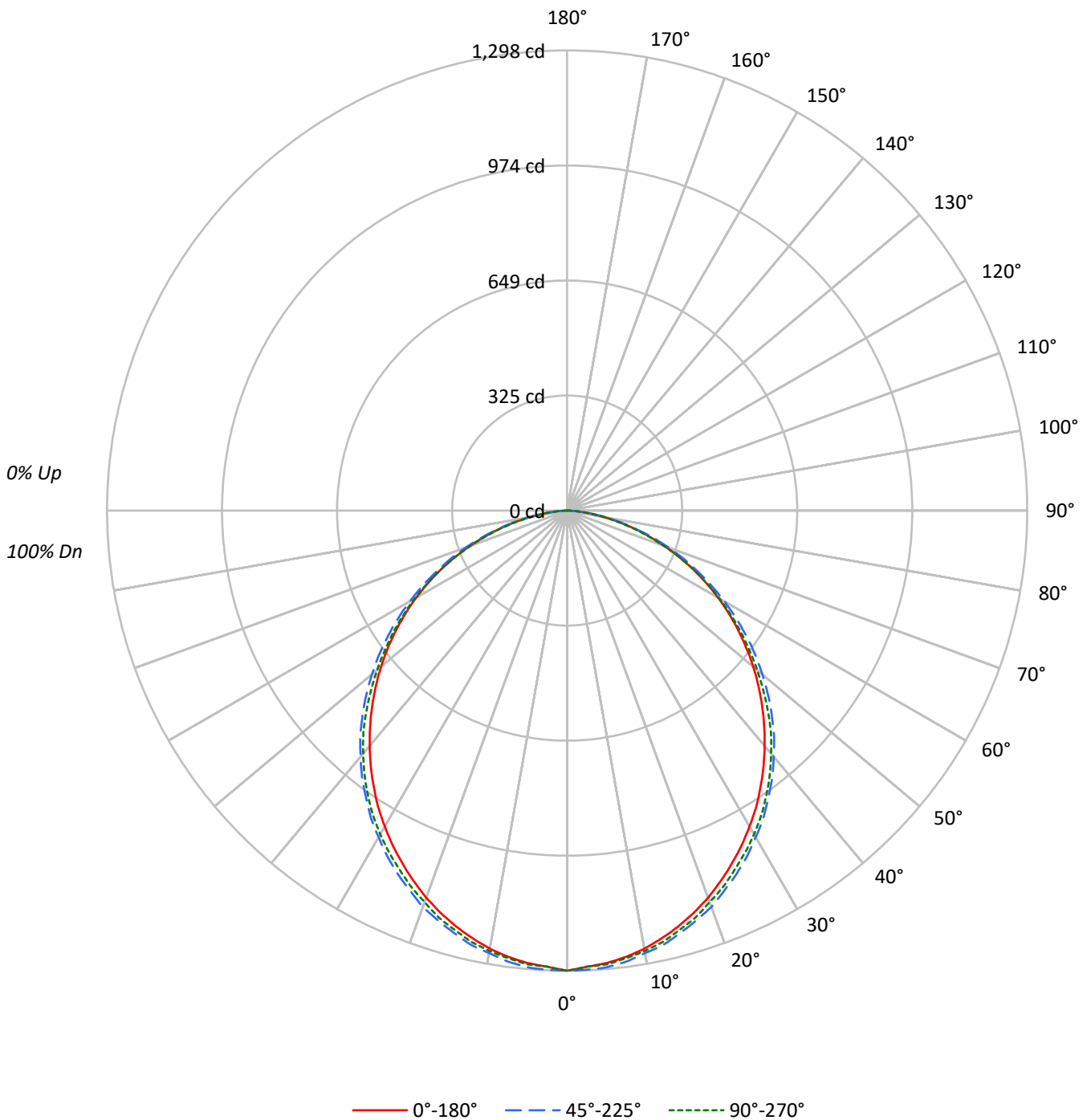
Lumens per Lamp: N/A
Luminaire Lumens: 3412.3 lumens
Efficiency: N/A
Efficacy: 79.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
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°	3493	3493	3493
5°	3460	3493	3471
10°	3429	3463	3447
15°	3381	3436	3412
20°	3328	3407	3366
25°	3263	3358	3319
30°	3197	3306	3275
35°	3125	3249	3219
40°	3044	3184	3144
45°	2958	3108	3049
50°	2870	3008	2930
55°	2766	2895	2806
60°	2648	2758	2673
65°	2495	2591	2497
70°	2296	2389	2271
75°	2022	2113	1991
80°	1643	1714	1624
85°	1145	1220	1189



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.2	3.6
10°-20°	346.4	10.2
20°-30°	516.6	15.1
30°-40°	612.2	17.9
40°-50°	619.5	18.2
50°-60°	541.0	15.9
60°-70°	395.4	11.6
70°-80°	210.4	6.2
80°-90°	48.6	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°	985.3	28.9
0°-40°	1597.5	46.8
0°-60°	2758.0	80.8
0°-90°	3412.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3412.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1298	1298	1298	1298	1298	
5°	1281	1283	1293	1296	1285	121
15°	1214	1222	1233	1241	1225	342
25°	1099	1112	1131	1135	1118	506
35°	951	966	989	996	980	595
45°	777	791	817	817	801	600
55°	590	601	617	608	598	527
65°	392	400	407	399	392	388
75°	194	199	203	196	192	207
85°	37	38	40	40	38	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1297.9	1297.9	1297.9	1297.9	1297.9
2.5°	1287.8	1292.0	1296.3	1298.2	1287.6
5°	1281.0	1283.4	1293.0	1296.0	1285.1
7.5°	1269.9	1273.6	1282.9	1284.3	1273.7
10°	1254.8	1261.3	1267.5	1274.3	1261.4
12.5°	1235.4	1244.2	1254.8	1256.0	1246.3
15°	1213.7	1221.8	1233.3	1240.7	1224.6
17.5°	1189.3	1197.2	1212.0	1213.4	1203.7
20°	1162.1	1171.9	1189.7	1192.8	1175.4
22.5°	1131.3	1144.4	1159.3	1162.3	1149.4
25°	1099.0	1112.5	1130.9	1135.1	1117.9
27.5°	1065.2	1078.2	1098.9	1101.8	1087.4
30°	1028.9	1041.1	1063.8	1068.8	1054.1
32.5°	992.2	1004.3	1029.5	1033.7	1019.3
35°	951.3	966.2	989.1	996.0	979.9
37.5°	909.7	924.1	950.1	956.3	939.0
40°	866.5	880.9	906.4	911.6	894.9
42.5°	822.5	836.8	864.1	864.9	851.1
45°	777.4	791.2	816.6	817.3	801.2
47.5°	731.7	745.6	768.4	765.8	750.7
50°	685.5	698.7	718.6	713.5	699.8
52.5°	637.6	650.4	669.2	660.9	648.0
55°	589.5	601.4	617.0	608.1	598.1
57.5°	540.9	552.9	565.0	555.9	547.3
60°	492.0	502.5	512.4	503.2	496.6
62.5°	442.2	451.3	459.8	451.0	444.8
65°	391.9	399.9	406.9	398.8	392.2
67.5°	341.9	348.6	355.1	346.7	339.8
70°	291.8	297.6	303.6	294.9	288.6
72.5°	242.5	247.6	252.9	244.5	238.9
75°	194.5	198.9	203.2	195.8	191.5
77.5°	148.6	152.4	155.4	150.6	146.5
80°	106.0	108.9	110.6	108.7	104.8
82.5°	68.2	70.2	71.1	71.0	68.4
85°	37.1	37.7	39.5	39.9	38.5
87.5°	14.3	15.3	15.7	16.9	15.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)