

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: P488917

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-2STD-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: P488917
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-24-2-INS-A12125-LD4-2STD-27-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

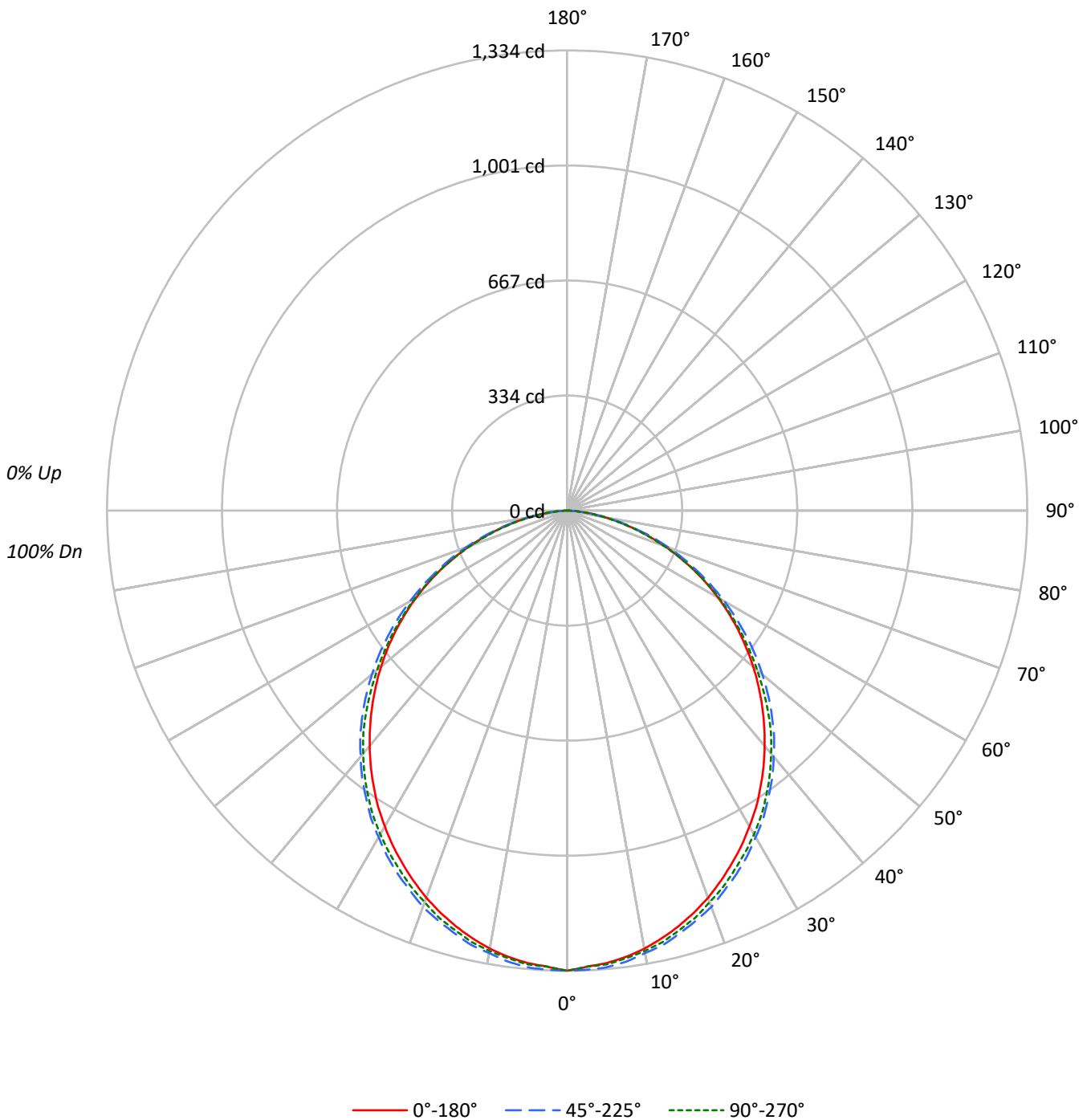
Lumens per Lamp: N/A
Luminaire Lumens: 3506.8 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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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CATALOG NUMBER: CLM-24-2-INS-A12125-LD4-2STD-27-120-EDD

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°	3589	3589	3589
5°	3556	3590	3568
10°	3524	3559	3542
15°	3475	3531	3506
20°	3420	3501	3459
25°	3353	3451	3411
30°	3286	3397	3366
35°	3212	3339	3308
40°	3128	3272	3231
45°	3041	3194	3134
50°	2949	3092	3011
55°	2842	2975	2884
60°	2721	2834	2746
65°	2564	2663	2566
70°	2360	2455	2334
75°	2077	2172	2046
80°	1689	1762	1669
85°	1176	1254	1223



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.6	3.6
10°-20°	356.0	10.2
20°-30°	530.9	15.1
30°-40°	629.2	17.9
40°-50°	636.6	18.2
50°-60°	556.0	15.9
60°-70°	406.3	11.6
70°-80°	216.2	6.2
80°-90°	50.0	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°	1012.5	28.9
0°-40°	1641.7	46.8
0°-60°	2834.3	80.8
0°-90°	3506.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3506.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1334	1334	1334	1334	1334	
5°	1316	1319	1329	1332	1321	125
15°	1247	1256	1267	1275	1258	352
25°	1129	1143	1162	1166	1149	520
35°	978	993	1016	1024	1007	611
45°	799	813	839	840	823	616
55°	606	618	634	625	615	542
65°	403	411	418	410	403	399
75°	200	204	209	201	197	212
85°	38	39	41	41	40	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1333.9	1333.9	1333.9	1333.9	1333.9
2.5°	1323.4	1327.7	1332.2	1334.1	1323.3
5°	1316.5	1319.0	1328.9	1331.9	1320.7
7.5°	1305.1	1308.8	1318.4	1319.8	1309.0
10°	1289.5	1296.2	1302.6	1309.5	1296.3
12.5°	1269.7	1278.7	1289.5	1290.8	1280.8
15°	1247.3	1255.6	1267.4	1275.1	1258.5
17.5°	1222.3	1230.3	1245.6	1247.0	1237.0
20°	1194.3	1204.3	1222.7	1225.9	1208.0
22.5°	1162.6	1176.1	1191.4	1194.5	1181.3
25°	1129.4	1143.3	1162.2	1166.5	1148.9
27.5°	1094.7	1108.0	1129.3	1132.4	1117.5
30°	1057.4	1070.0	1093.3	1098.4	1083.3
32.5°	1019.6	1032.2	1058.0	1062.3	1047.6
35°	977.7	993.0	1016.4	1023.5	1007.0
37.5°	934.9	949.7	976.4	982.8	965.0
40°	890.5	905.3	931.5	936.8	919.7
42.5°	845.2	860.0	888.0	888.9	874.7
45°	799.0	813.1	839.3	840.0	823.4
47.5°	752.0	766.3	789.6	787.0	771.4
50°	704.5	718.1	738.5	733.2	719.2
52.5°	655.3	668.5	687.8	679.2	666.0
55°	605.8	618.0	634.1	625.0	614.7
57.5°	555.9	568.3	580.6	571.3	562.4
60°	505.6	516.4	526.6	517.1	510.3
62.5°	454.4	463.8	472.5	463.5	457.1
65°	402.7	410.9	418.2	409.8	403.0
67.5°	351.3	358.3	364.9	356.3	349.2
70°	299.9	305.9	312.0	303.1	296.6
72.5°	249.2	254.5	259.9	251.3	245.6
75°	199.8	204.4	208.9	201.2	196.8
77.5°	152.7	156.6	159.7	154.8	150.5
80°	109.0	111.9	113.7	111.7	107.7
82.5°	70.0	72.1	73.1	73.0	70.3
85°	38.1	38.8	40.6	41.0	39.6
87.5°	14.7	15.7	16.1	17.4	16.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)