

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: P488559

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-1STD-30-120-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: P488559
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-LD4-1STD-30-120-EDD
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

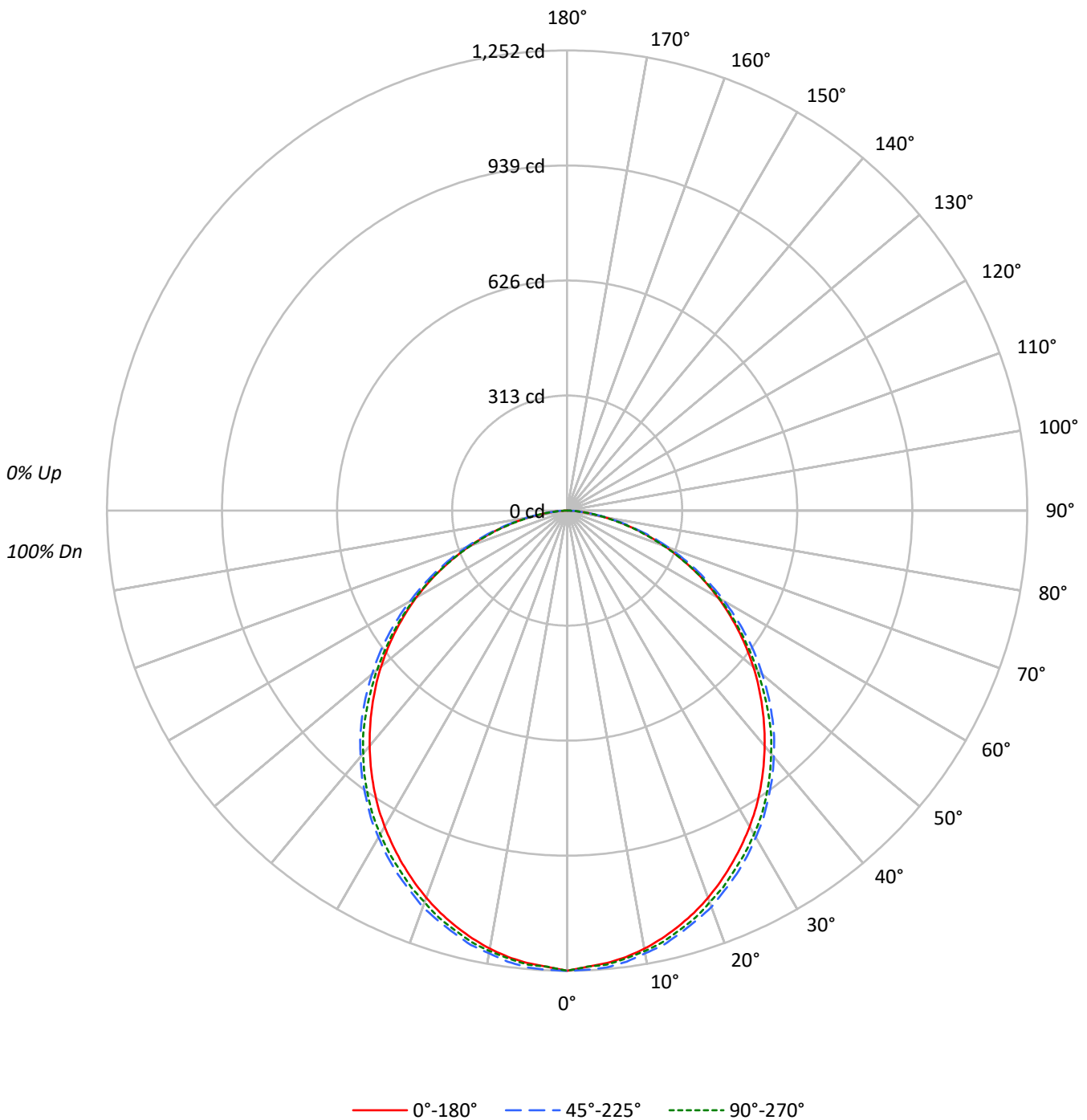
Lumens per Lamp: N/A
Luminaire Lumens: 3292.2 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
Input Voltage (V): NR
Input Current (A_{in}): 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

TEST NUMBER: P488559

CATALOG NUMBER: CLM-12-4-INS-A12125-LD4-1STD-30-120-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°	3370	3370	3370
5°	3338	3370	3349
10°	3308	3342	3325
15°	3262	3315	3292
20°	3211	3287	3247
25°	3148	3240	3203
30°	3085	3189	3160
35°	3015	3135	3106
40°	2937	3072	3033
45°	2855	2998	2942
50°	2768	2902	2827
55°	2668	2793	2708
60°	2554	2660	2578
65°	2408	2500	2409
70°	2216	2305	2190
75°	1951	2039	1920
80°	1585	1654	1567
85°	1102	1176	1149



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.9	3.6
10°-20°	334.2	10.2
20°-30°	498.5	15.1
30°-40°	590.7	17.9
40°-50°	597.7	18.2
50°-60°	522.0	15.9
60°-70°	381.4	11.6
70°-80°	202.9	6.2
80°-90°	46.9	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°	950.6	28.9
0°-40°	1541.3	46.8
0°-60°	2660.9	80.8
0°-90°	3292.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3292.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1252	1252	1252	1252	1252	
5°	1236	1238	1248	1250	1240	117
15°	1171	1179	1190	1197	1182	330
25°	1060	1073	1091	1095	1079	488
35°	918	932	954	961	945	574
45°	750	763	788	789	773	579
55°	569	580	595	587	577	508
65°	378	386	393	385	378	374
75°	188	192	196	189	185	199
85°	36	36	38	38	37	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1252.2	1252.2	1252.2	1252.2	1252.2
2.5°	1242.5	1246.5	1250.7	1252.5	1242.3
5°	1235.9	1238.3	1247.5	1250.4	1239.8
7.5°	1225.2	1228.8	1237.8	1239.1	1228.9
10°	1210.6	1216.9	1222.9	1229.4	1217.0
12.5°	1192.0	1200.4	1210.6	1211.8	1202.4
15°	1171.0	1178.8	1189.9	1197.0	1181.5
17.5°	1147.5	1155.0	1169.4	1170.7	1161.3
20°	1121.2	1130.6	1147.9	1150.9	1134.0
22.5°	1091.5	1104.2	1118.5	1121.4	1109.0
25°	1060.3	1073.4	1091.1	1095.2	1078.6
27.5°	1027.7	1040.2	1060.2	1063.1	1049.1
30°	992.7	1004.5	1026.4	1031.2	1017.0
32.5°	957.2	969.0	993.3	997.3	983.5
35°	917.8	932.2	954.2	960.9	945.4
37.5°	877.7	891.6	916.7	922.7	906.0
40°	836.0	849.9	874.5	879.5	863.4
42.5°	793.5	807.3	833.7	834.5	821.2
45°	750.1	763.4	787.9	788.6	773.0
47.5°	706.0	719.4	741.3	738.8	724.2
50°	661.3	674.1	693.3	688.4	675.2
52.5°	615.2	627.6	645.7	637.6	625.2
55°	568.7	580.2	595.3	586.7	577.1
57.5°	521.9	533.5	545.1	536.4	528.0
60°	474.6	484.8	494.3	485.5	479.1
62.5°	426.6	435.4	443.6	435.1	429.1
65°	378.1	385.8	392.6	384.8	378.4
67.5°	329.8	336.3	342.6	334.5	327.9
70°	281.6	287.2	292.9	284.6	278.4
72.5°	233.9	238.9	244.0	235.9	230.5
75°	187.6	191.9	196.1	188.9	184.7
77.5°	143.4	147.0	149.9	145.3	141.3
80°	102.3	105.0	106.7	104.9	101.1
82.5°	65.8	67.7	68.6	68.5	66.0
85°	35.7	36.4	38.1	38.5	37.2
87.5°	13.8	14.7	15.1	16.3	15.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)