

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: P488563

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-1STD-40-120-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: P488563
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-40-120-EDD
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

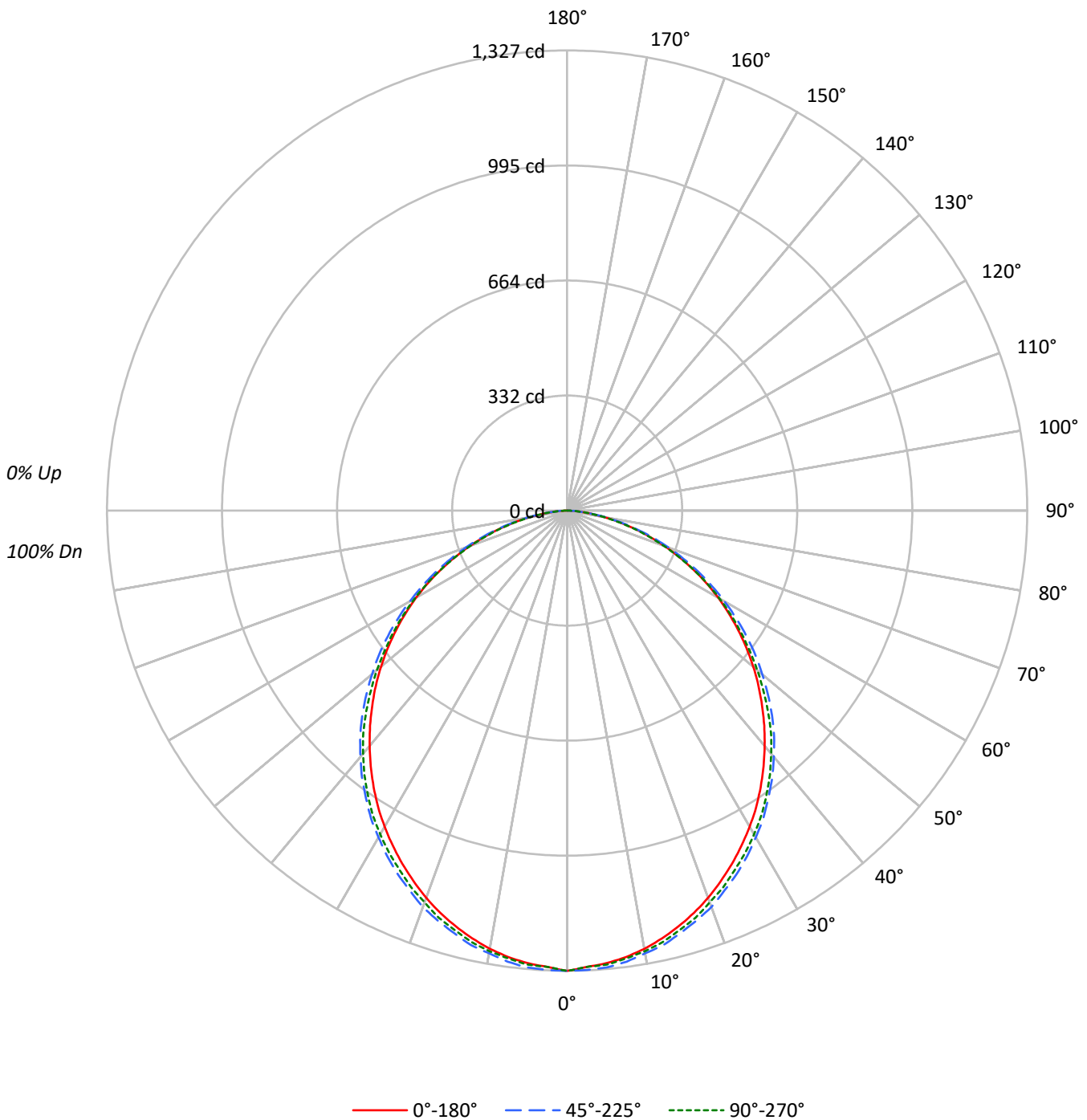
Lumens per Lamp: N/A
Luminaire Lumens: 3489.9 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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

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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°	3572	3572	3572
5°	3539	3572	3550
10°	3507	3542	3525
15°	3458	3514	3489
20°	3404	3485	3442
25°	3337	3434	3395
30°	3270	3381	3350
35°	3196	3323	3292
40°	3113	3256	3215
45°	3026	3178	3118
50°	2935	3077	2996
55°	2829	2961	2870
60°	2708	2820	2733
65°	2552	2650	2554
70°	2349	2443	2322
75°	2068	2162	2036
80°	1680	1753	1661
85°	1170	1247	1216



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.0	3.6
10°-20°	354.3	10.2
20°-30°	528.4	15.1
30°-40°	626.1	17.9
40°-50°	633.6	18.2
50°-60°	553.3	15.9
60°-70°	404.3	11.6
70°-80°	215.1	6.2
80°-90°	49.7	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°	1007.7	28.9
0°-40°	1633.8	46.8
0°-60°	2820.7	80.8
0°-90°	3489.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3489.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1327	1327	1327	1327	1327	
5°	1310	1313	1322	1326	1314	124
15°	1241	1250	1261	1269	1252	350
25°	1124	1138	1157	1161	1143	518
35°	973	988	1012	1019	1002	608
45°	795	809	835	836	819	613
55°	603	615	631	622	612	539
65°	401	409	416	408	401	397
75°	199	203	208	200	196	211
85°	38	39	40	41	39	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1327.4	1327.4	1327.4	1327.4	1327.4
2.5°	1317.1	1321.3	1325.8	1327.7	1316.9
5°	1310.1	1312.6	1322.5	1325.5	1314.3
7.5°	1298.8	1302.5	1312.1	1313.5	1302.7
10°	1283.3	1290.0	1296.3	1303.2	1290.1
12.5°	1263.5	1272.5	1283.3	1284.6	1274.6
15°	1241.3	1249.6	1261.3	1268.9	1252.5
17.5°	1216.4	1224.4	1239.6	1241.0	1231.0
20°	1188.6	1198.5	1216.8	1220.0	1202.1
22.5°	1157.0	1170.5	1185.7	1188.7	1175.6
25°	1124.0	1137.8	1156.6	1160.9	1143.4
27.5°	1089.4	1102.7	1123.9	1126.9	1112.1
30°	1052.3	1064.8	1088.0	1093.1	1078.1
32.5°	1014.7	1027.2	1052.9	1057.2	1042.5
35°	973.0	988.2	1011.5	1018.6	1002.1
37.5°	930.4	945.2	971.7	978.1	960.4
40°	886.2	900.9	927.0	932.3	915.3
42.5°	841.2	855.8	883.8	884.6	870.5
45°	795.1	809.2	835.2	835.9	819.4
47.5°	748.4	762.6	785.8	783.2	767.7
50°	701.1	714.6	734.9	729.7	715.7
52.5°	652.1	665.2	684.5	675.9	662.7
55°	602.9	615.0	631.1	621.9	611.7
57.5°	553.2	565.5	577.8	568.6	559.7
60°	503.1	513.9	524.0	514.6	507.8
62.5°	452.3	461.5	470.2	461.2	454.9
65°	400.8	409.0	416.2	407.9	401.1
67.5°	349.6	356.5	363.2	354.6	347.6
70°	298.5	304.4	310.5	301.6	295.1
72.5°	248.0	253.2	258.6	250.1	244.4
75°	198.9	203.4	207.9	200.3	195.8
77.5°	152.0	155.9	158.9	154.1	149.8
80°	108.4	111.3	113.1	111.2	107.2
82.5°	69.7	71.8	72.7	72.6	70.0
85°	37.9	38.6	40.4	40.8	39.4
87.5°	14.7	15.6	16.0	17.3	15.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)