

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: P488561

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-1STD-35-120-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: P488561
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-35-120-EDD
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

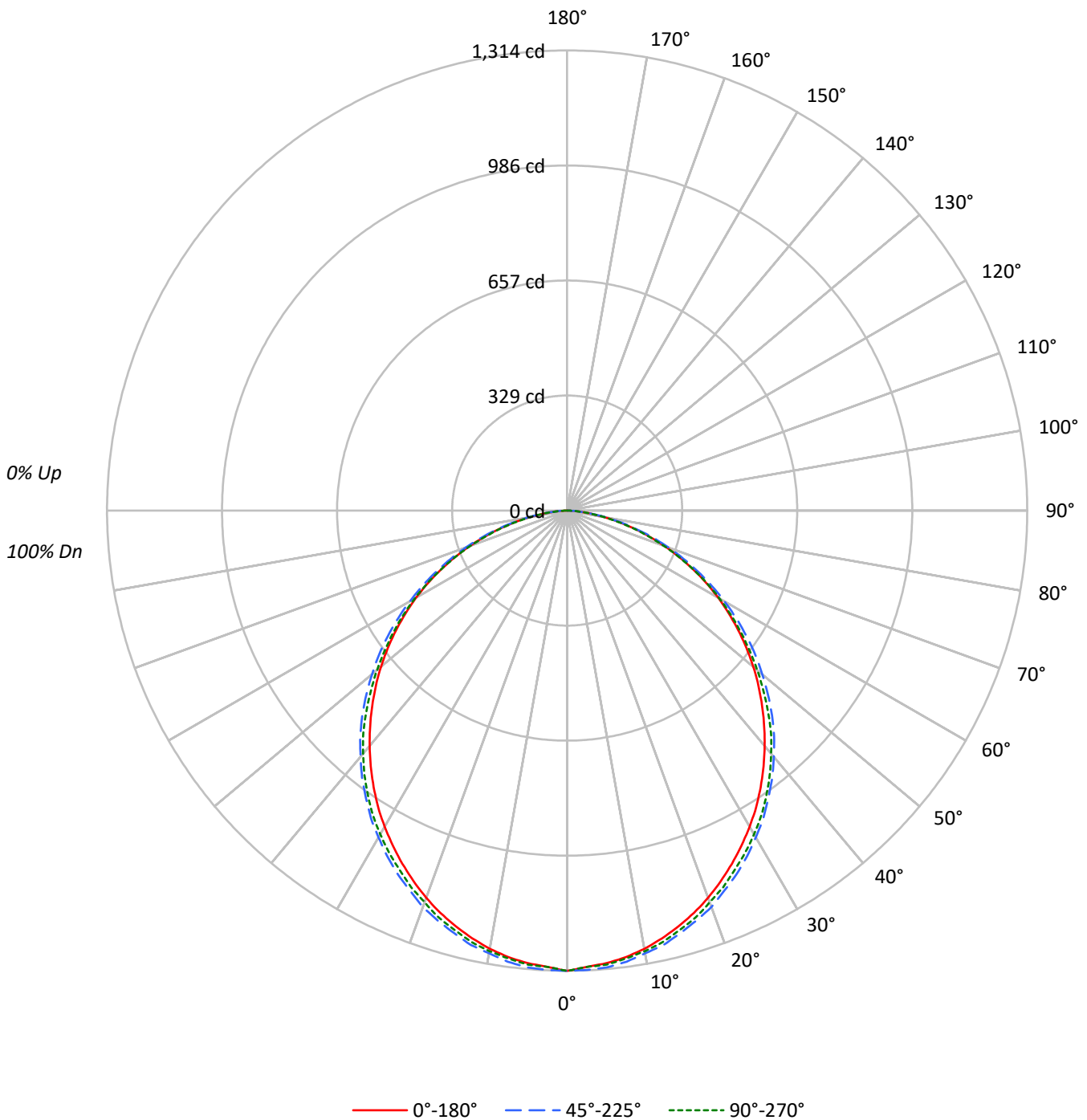
Lumens per Lamp: N/A
Luminaire Lumens: 3455.4 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
Input Voltage (V): NR
Input Current (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°	3537	3537	3537
5°	3504	3537	3515
10°	3472	3507	3490
15°	3424	3479	3455
20°	3370	3450	3408
25°	3304	3400	3361
30°	3237	3347	3317
35°	3165	3290	3259
40°	3083	3224	3183
45°	2996	3147	3087
50°	2906	3046	2966
55°	2800	2931	2842
60°	2681	2793	2706
65°	2527	2623	2528
70°	2325	2419	2299
75°	2047	2140	2016
80°	1664	1736	1644
85°	1158	1235	1204



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.8	3.6
10°-20°	350.8	10.2
20°-30°	523.2	15.1
30°-40°	619.9	17.9
40°-50°	627.3	18.2
50°-60°	547.8	15.9
60°-70°	400.3	11.6
70°-80°	213.0	6.2
80°-90°	49.2	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°	997.7	28.9
0°-40°	1617.7	46.8
0°-60°	2792.8	80.8
0°-90°	3455.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3455.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1314	1314	1314	1314	1314	
5°	1297	1300	1309	1312	1301	123
15°	1229	1237	1249	1256	1240	346
25°	1113	1127	1145	1149	1132	513
35°	963	978	1002	1008	992	602
45°	787	801	827	828	811	607
55°	597	609	625	616	606	534
65°	397	405	412	404	397	393
75°	197	201	206	198	194	209
85°	38	38	40	40	39	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1314.3	1314.3	1314.3	1314.3	1314.3
2.5°	1304.0	1308.3	1312.7	1314.6	1303.9
5°	1297.2	1299.7	1309.4	1312.4	1301.3
7.5°	1286.0	1289.7	1299.1	1300.5	1289.8
10°	1270.6	1277.2	1283.5	1290.3	1277.3
12.5°	1251.0	1259.9	1270.6	1271.9	1262.0
15°	1229.0	1237.2	1248.9	1256.4	1240.1
17.5°	1204.4	1212.3	1227.4	1228.7	1218.9
20°	1176.8	1186.7	1204.8	1207.9	1190.2
22.5°	1145.6	1158.9	1174.0	1177.0	1164.0
25°	1112.9	1126.6	1145.2	1149.4	1132.0
27.5°	1078.6	1091.8	1112.7	1115.8	1101.1
30°	1041.9	1054.3	1077.3	1082.3	1067.4
32.5°	1004.7	1017.0	1042.5	1046.7	1032.2
35°	963.3	978.4	1001.5	1008.5	992.2
37.5°	921.2	935.8	962.1	968.4	950.9
40°	877.5	892.0	917.9	923.1	906.2
42.5°	832.8	847.4	875.0	875.8	861.9
45°	787.2	801.2	827.0	827.6	811.3
47.5°	741.0	755.1	778.1	775.5	760.1
50°	694.1	707.5	727.7	722.5	708.6
52.5°	645.7	658.7	677.7	669.2	656.2
55°	596.9	609.0	624.8	615.8	605.7
57.5°	547.7	559.9	572.1	562.9	554.2
60°	498.2	508.9	518.9	509.5	502.8
62.5°	447.8	457.0	465.6	456.7	450.4
65°	396.8	404.9	412.0	403.8	397.1
67.5°	346.2	353.0	359.6	351.1	344.1
70°	295.5	301.4	307.4	298.7	292.2
72.5°	245.5	250.7	256.1	247.6	242.0
75°	196.9	201.4	205.8	198.3	193.9
77.5°	150.5	154.3	157.3	152.5	148.3
80°	107.4	110.2	112.0	110.1	106.1
82.5°	69.0	71.1	72.0	71.9	69.3
85°	37.5	38.2	40.0	40.4	39.0
87.5°	14.5	15.5	15.9	17.1	15.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)