

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: P488588

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-2LO-50-120-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: P488588
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-LD4-2LO-50-120-EDD-90
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

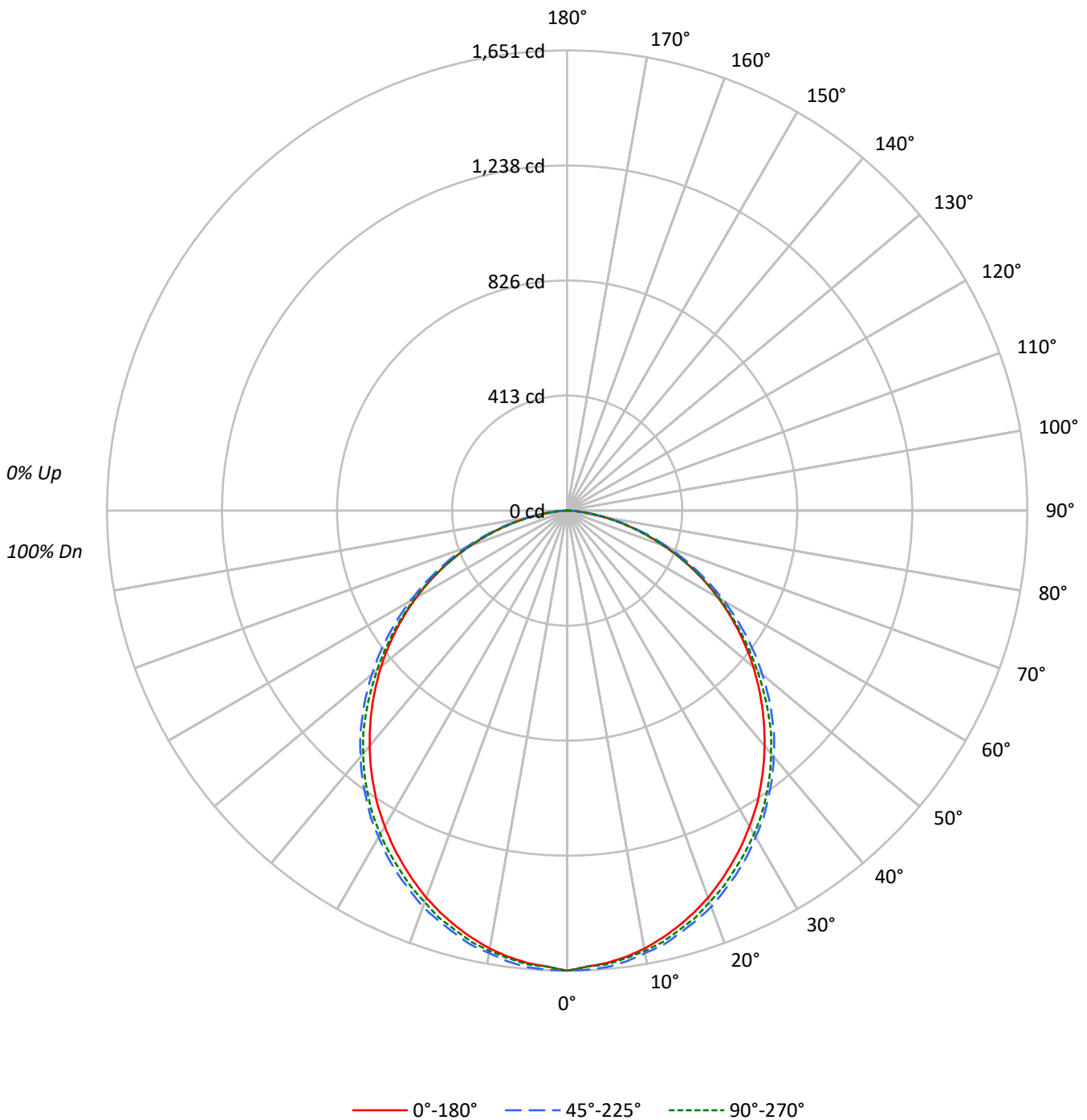
Lumens per Lamp: N/A
Luminaire Lumens: 4339.6 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 46.8
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°	4442	4442	4442
5°	4401	4442	4415
10°	4361	4405	4383
15°	4300	4369	4339
20°	4233	4333	4281
25°	4150	4270	4221
30°	4066	4204	4166
35°	3975	4132	4094
40°	3871	4050	3998
45°	3763	3953	3878
50°	3649	3826	3726
55°	3517	3681	3569
60°	3367	3507	3399
65°	3174	3295	3175
70°	2920	3038	2888
75°	2571	2688	2532
80°	2089	2180	2066
85°	1454	1550	1513



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.5	3.6
10°-20°	440.5	10.2
20°-30°	657.0	15.1
30°-40°	778.6	17.9
40°-50°	787.8	18.2
50°-60°	688.0	15.9
60°-70°	502.8	11.6
70°-80°	267.5	6.2
80°-90°	61.8	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°	1253.0	28.9
0°-40°	2031.6	46.8
0°-60°	3507.5	80.8
0°-90°	4339.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4339.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1651	1651	1651	1651	1651	
5°	1629	1632	1644	1648	1634	154
15°	1544	1554	1568	1578	1557	435
25°	1398	1415	1438	1444	1422	644
35°	1210	1229	1258	1267	1246	757
45°	989	1006	1039	1039	1019	763
55°	750	765	785	773	761	670
65°	498	508	518	507	499	493
75°	247	253	258	249	244	263
85°	47	48	50	51	49	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1650.6	1650.6	1650.6	1650.6	1650.6
2.5°	1637.7	1643.1	1648.6	1651.0	1637.6
5°	1629.1	1632.2	1644.4	1648.2	1634.3
7.5°	1615.0	1619.7	1631.5	1633.3	1619.8
10°	1595.8	1604.0	1611.9	1620.5	1604.2
12.5°	1571.2	1582.4	1595.8	1597.3	1584.9
15°	1543.5	1553.8	1568.4	1577.9	1557.4
17.5°	1512.5	1522.5	1541.4	1543.1	1530.8
20°	1478.0	1490.3	1513.0	1517.0	1494.8
22.5°	1438.8	1455.4	1474.4	1478.1	1461.8
25°	1397.7	1414.8	1438.2	1443.6	1421.7
27.5°	1354.7	1371.2	1397.5	1401.3	1382.9
30°	1308.6	1324.0	1352.9	1359.3	1340.6
32.5°	1261.8	1277.3	1309.3	1314.6	1296.4
35°	1209.9	1228.8	1257.8	1266.6	1246.1
37.5°	1156.9	1175.3	1208.3	1216.2	1194.2
40°	1102.0	1120.3	1152.8	1159.3	1138.1
42.5°	1046.0	1064.2	1098.9	1100.0	1082.4
45°	988.7	1006.2	1038.6	1039.4	1019.0
47.5°	930.6	948.3	977.2	973.9	954.6
50°	871.7	888.6	913.9	907.3	890.0
52.5°	810.9	827.2	851.1	840.4	824.1
55°	749.6	764.8	784.7	773.4	760.7
57.5°	687.9	703.2	718.5	707.0	696.0
60°	625.7	639.1	651.6	639.9	631.5
62.5°	562.4	573.9	584.7	573.5	565.6
65°	498.4	508.5	517.5	507.2	498.7
67.5°	434.8	443.4	451.6	440.9	432.2
70°	371.1	378.5	386.1	375.1	367.0
72.5°	308.4	314.9	321.6	310.9	303.9
75°	247.3	253.0	258.5	249.0	243.5
77.5°	189.0	193.8	197.6	191.6	186.3
80°	134.8	138.4	140.7	138.3	133.3
82.5°	86.7	89.3	90.5	90.3	87.0
85°	47.1	48.0	50.2	50.7	49.0
87.5°	18.2	19.4	19.9	21.5	19.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)