

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: P488590

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-2STD-20-120-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: P488590
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-LD4-2STD-20-120-EDD-90
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

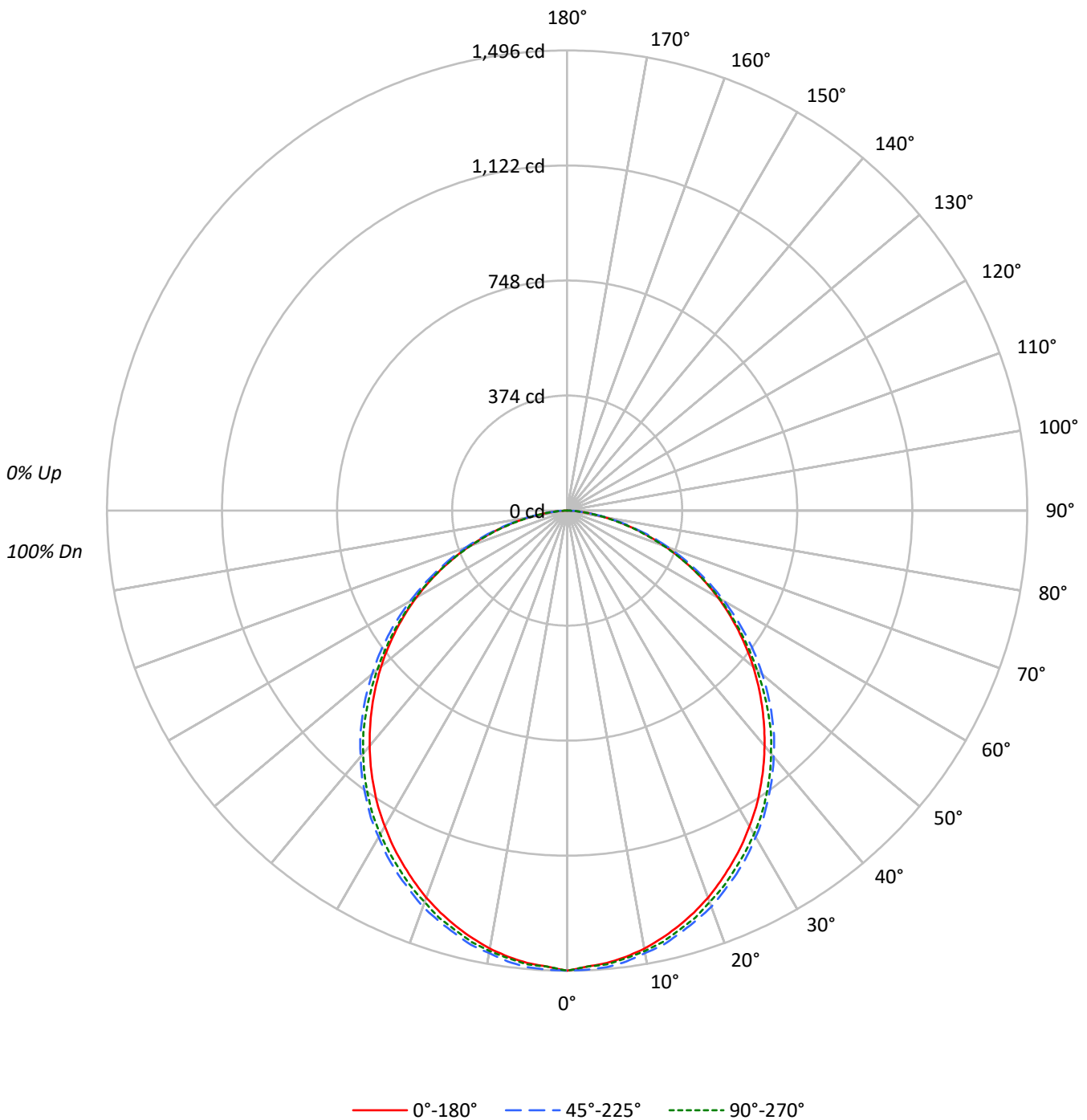
Lumens per Lamp: N/A
Luminaire Lumens: 3932.2 lumens
Efficiency: N/A
Efficacy: 59.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 66.6
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°	4025	4025	4025
5°	3988	4025	4000
10°	3951	3991	3972
15°	3896	3959	3931
20°	3835	3926	3879
25°	3760	3869	3825
30°	3684	3809	3774
35°	3601	3744	3710
40°	3508	3669	3623
45°	3409	3581	3514
50°	3307	3467	3376
55°	3187	3336	3233
60°	3051	3178	3080
65°	2876	2986	2877
70°	2646	2752	2616
75°	2330	2435	2295
80°	1894	1976	1872
85°	1318	1405	1371



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.9	3.6
10°-20°	399.2	10.2
20°-30°	595.3	15.1
30°-40°	705.5	17.9
40°-50°	713.9	18.2
50°-60°	623.4	15.9
60°-70°	455.6	11.6
70°-80°	242.4	6.2
80°-90°	56.0	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°	1135.4	28.9
0°-40°	1840.9	46.8
0°-60°	3178.2	80.8
0°-90°	3932.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3932.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1496	1496	1496	1496	1496	
5°	1476	1479	1490	1494	1481	140
15°	1399	1408	1421	1430	1411	394
25°	1266	1282	1303	1308	1288	583
35°	1096	1113	1140	1148	1129	686
45°	896	912	941	942	923	691
55°	679	693	711	701	689	607
65°	452	461	469	460	452	447
75°	224	229	234	226	221	238
85°	43	44	46	46	44	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1495.7	1495.7	1495.7	1495.7	1495.7
2.5°	1484.0	1488.8	1493.8	1496.0	1483.8
5°	1476.2	1479.0	1490.1	1493.5	1480.9
7.5°	1463.4	1467.6	1478.4	1479.9	1467.8
10°	1446.0	1453.4	1460.6	1468.4	1453.6
12.5°	1423.7	1433.8	1446.0	1447.4	1436.1
15°	1398.6	1407.9	1421.2	1429.8	1411.2
17.5°	1370.5	1379.6	1396.7	1398.3	1387.1
20°	1339.2	1350.4	1371.0	1374.6	1354.5
22.5°	1303.7	1318.8	1335.9	1339.4	1324.6
25°	1266.4	1282.0	1303.2	1308.0	1288.3
27.5°	1227.5	1242.4	1266.3	1269.7	1253.0
30°	1185.7	1199.7	1225.9	1231.7	1214.7
32.5°	1143.3	1157.4	1186.3	1191.2	1174.7
35°	1096.3	1113.4	1139.8	1147.7	1129.2
37.5°	1048.3	1065.0	1094.9	1102.0	1082.1
40°	998.6	1015.1	1044.5	1050.5	1031.3
42.5°	947.8	964.3	995.8	996.7	980.8
45°	895.9	911.8	941.1	941.8	923.3
47.5°	843.2	859.3	885.4	882.5	865.0
50°	789.9	805.2	828.1	822.2	806.4
52.5°	734.7	749.5	771.2	761.5	746.7
55°	679.3	693.0	711.1	700.8	689.2
57.5°	623.3	637.2	651.1	640.6	630.6
60°	566.9	579.1	590.4	579.8	572.2
62.5°	509.6	520.0	529.8	519.7	512.5
65°	451.6	460.8	468.9	459.5	451.9
67.5°	393.9	401.7	409.2	399.6	391.6
70°	336.3	343.0	349.8	339.9	332.5
72.5°	279.4	285.3	291.4	281.7	275.4
75°	224.1	229.2	234.2	225.6	220.7
77.5°	171.3	175.6	179.1	173.6	168.8
80°	122.2	125.4	127.5	125.3	120.8
82.5°	78.5	80.9	82.0	81.8	78.9
85°	42.7	43.5	45.5	46.0	44.4
87.5°	16.5	17.6	18.1	19.5	17.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)