

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: P488951

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-3STD-20-120-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: P488951
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-24-2-INS-A12125-LD4-3STD-20-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

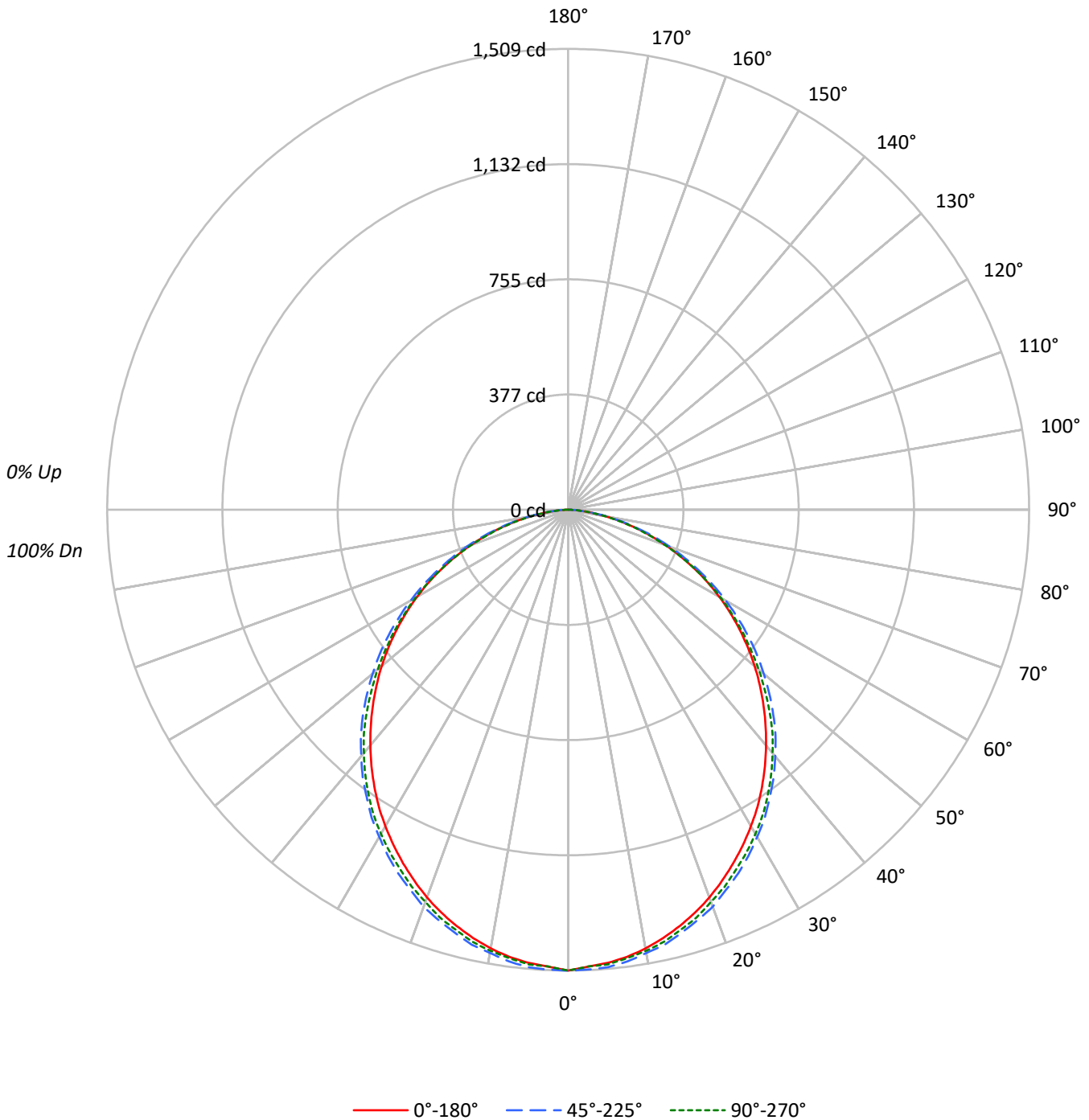
Lumens per Lamp: N/A
Luminaire Lumens: 3967.7 lumens
Efficiency: N/A
Efficacy: 79.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
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	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					100			
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85					85			
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71					71			
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60					60			
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51					51			
5	77	64	55	48	75	63	54	48	61	53	48	59	52	47	57	51	47	45					45			
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39					39			
7	66	52	44	38	64	51	43	37	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31					31			
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4061	4061	4061
5°	4024	4061	4036
10°	3987	4027	4008
15°	3931	3995	3967
20°	3870	3962	3914
25°	3794	3904	3860
30°	3718	3844	3809
35°	3634	3778	3743
40°	3540	3703	3655
45°	3440	3614	3545
50°	3337	3498	3406
55°	3216	3366	3263
60°	3078	3207	3108
65°	2902	3012	2904
70°	2670	2777	2640
75°	2351	2457	2314
80°	1911	1993	1889
85°	1331	1417	1383



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.1	3.6
10°-20°	402.8	10.2
20°-30°	600.7	15.1
30°-40°	711.9	17.9
40°-50°	720.3	18.2
50°-60°	629.1	15.9
60°-70°	459.7	11.6
70°-80°	244.6	6.2
80°-90°	56.5	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°	1145.6	28.9
0°-40°	1857.5	46.8
0°-60°	3206.9	80.8
0°-90°	3967.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3967.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1509	1509	1509	1509	1509	
5°	1490	1492	1504	1507	1494	141
15°	1411	1421	1434	1443	1424	398
25°	1278	1294	1315	1320	1300	589
35°	1106	1124	1150	1158	1139	692
45°	904	920	950	950	932	697
55°	685	699	718	707	696	613
65°	456	465	473	464	456	451
75°	226	231	236	228	223	240
85°	43	44	46	46	45	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1509.2	1509.2	1509.2	1509.2	1509.2
2.5°	1497.4	1502.3	1507.3	1509.5	1497.2
5°	1489.5	1492.3	1503.5	1507.0	1494.2
7.5°	1476.6	1480.9	1491.7	1493.3	1481.0
10°	1459.0	1466.6	1473.8	1481.7	1466.7
12.5°	1436.5	1446.7	1459.0	1460.4	1449.1
15°	1411.2	1420.6	1434.0	1442.7	1423.9
17.5°	1382.9	1392.0	1409.3	1410.9	1399.6
20°	1351.3	1362.6	1383.4	1387.0	1366.7
22.5°	1315.5	1330.7	1348.0	1351.5	1336.5
25°	1277.9	1293.6	1315.0	1319.9	1299.9
27.5°	1238.6	1253.7	1277.7	1281.2	1264.4
30°	1196.4	1210.6	1237.0	1242.8	1225.7
32.5°	1153.7	1167.8	1197.1	1201.9	1185.3
35°	1106.2	1123.5	1150.0	1158.1	1139.3
37.5°	1057.7	1074.6	1104.8	1112.0	1091.9
40°	1007.6	1024.2	1054.0	1059.9	1040.6
42.5°	956.3	973.0	1004.8	1005.7	989.7
45°	904.0	920.0	949.6	950.3	931.6
47.5°	850.8	867.0	893.4	890.4	872.8
50°	797.0	812.4	835.6	829.6	813.7
52.5°	741.4	756.3	778.2	768.4	753.5
55°	685.4	699.2	717.5	707.1	695.5
57.5°	629.0	642.9	656.9	646.4	636.3
60°	572.0	584.3	595.8	585.1	577.4
62.5°	514.2	524.7	534.6	524.4	517.2
65°	455.7	465.0	473.1	463.7	456.0
67.5°	397.5	405.4	412.9	403.2	395.1
70°	339.3	346.1	353.0	342.9	335.5
72.5°	281.9	287.9	294.0	284.3	277.8
75°	226.1	231.3	236.3	227.7	222.6
77.5°	172.8	177.2	180.7	175.2	170.3
80°	123.3	126.6	128.6	126.4	121.9
82.5°	79.2	81.6	82.7	82.6	79.6
85°	43.1	43.9	45.9	46.4	44.8
87.5°	16.7	17.8	18.2	19.7	18.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)