

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: P489422

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-1STD-30-120-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: P489422
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-24-4-INS-A12125-LD4-1STD-30-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

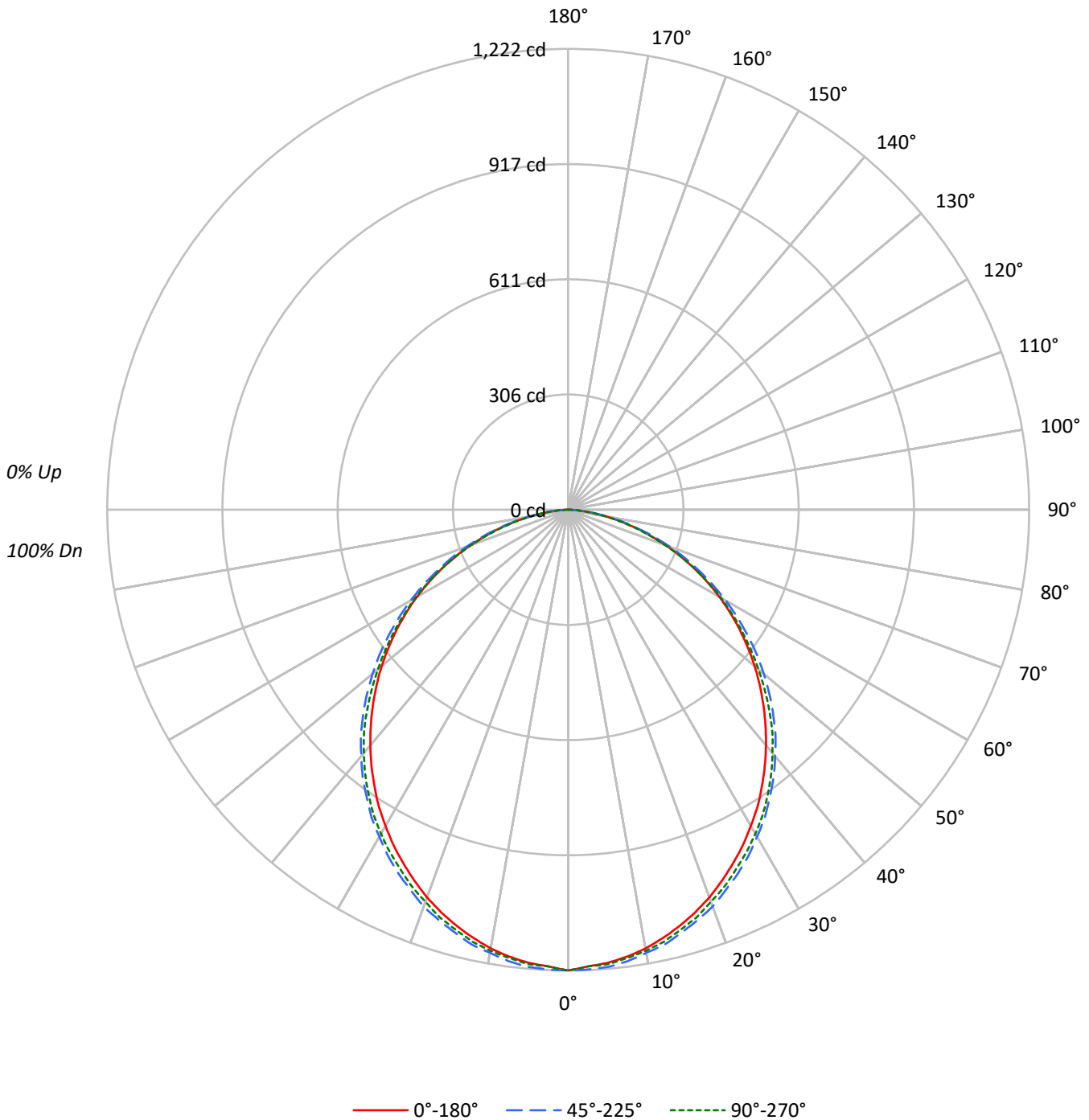
Lumens per Lamp: N/A
Luminaire Lumens: 3212.1 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	1644	1644	1644
5°	1629	1644	1634
10°	1614	1630	1622
15°	1591	1617	1606
20°	1566	1604	1584
25°	1536	1580	1562
30°	1505	1556	1542
35°	1471	1529	1515
40°	1433	1499	1480
45°	1392	1463	1435
50°	1351	1416	1379
55°	1302	1362	1321
60°	1246	1298	1258
65°	1174	1219	1175
70°	1081	1124	1068
75°	951	994	937
80°	773	807	765
85°	539	574	560



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.1	3.6
10°-20°	326.1	10.2
20°-30°	486.3	15.1
30°-40°	576.3	17.9
40°-50°	583.1	18.2
50°-60°	509.3	15.9
60°-70°	372.2	11.6
70°-80°	198.0	6.2
80°-90°	45.8	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°	927.5	28.9
0°-40°	1503.8	46.8
0°-60°	2596.2	80.8
0°-90°	3212.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3212.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1222	1222	1222	1222	1222	
5°	1206	1208	1217	1220	1210	114
15°	1142	1150	1161	1168	1153	322
25°	1034	1047	1065	1068	1052	477
35°	896	910	931	938	922	560
45°	732	745	769	769	754	565
55°	555	566	581	572	563	496
65°	369	376	383	375	369	365
75°	183	187	191	184	180	195
85°	35	36	37	38	36	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1221.8	1221.8	1221.8	1221.8	1221.8
2.5°	1212.2	1216.2	1220.2	1222.0	1212.1
5°	1205.9	1208.1	1217.2	1220.0	1209.7
7.5°	1195.4	1198.9	1207.6	1208.9	1199.0
10°	1181.2	1187.3	1193.1	1199.5	1187.4
12.5°	1163.0	1171.2	1181.2	1182.3	1173.1
15°	1142.5	1150.1	1160.9	1167.9	1152.8
17.5°	1119.6	1126.9	1140.9	1142.2	1133.0
20°	1094.0	1103.1	1119.9	1122.9	1106.4
22.5°	1064.9	1077.3	1091.3	1094.1	1082.0
25°	1034.5	1047.2	1064.6	1068.5	1052.3
27.5°	1002.7	1014.9	1034.4	1037.2	1023.6
30°	968.6	980.0	1001.4	1006.1	992.3
32.5°	934.0	945.4	969.1	973.0	959.5
35°	895.5	909.5	931.0	937.5	922.4
37.5°	856.3	869.9	894.4	900.2	883.9
40°	815.7	829.2	853.3	858.1	842.4
42.5°	774.2	787.7	813.4	814.2	801.2
45°	731.8	744.8	768.7	769.4	754.2
47.5°	688.8	701.9	723.3	720.9	706.6
50°	645.3	657.7	676.4	671.6	658.7
52.5°	600.2	612.3	630.0	622.1	610.0
55°	554.9	566.1	580.8	572.4	563.0
57.5°	509.2	520.5	531.8	523.3	515.2
60°	463.1	473.0	482.3	473.7	467.4
62.5°	416.3	424.8	432.8	424.5	418.7
65°	368.9	376.4	383.0	375.4	369.2
67.5°	321.8	328.2	334.3	326.4	319.9
70°	274.7	280.2	285.8	277.6	271.6
72.5°	228.2	233.1	238.0	230.1	224.9
75°	183.0	187.2	191.3	184.3	180.2
77.5°	139.9	143.5	146.3	141.8	137.9
80°	99.8	102.5	104.1	102.3	98.7
82.5°	64.2	66.1	67.0	66.8	64.4
85°	34.9	35.5	37.2	37.6	36.3
87.5°	13.5	14.4	14.8	15.9	14.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)