

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: P489421

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-1STD-27-120-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: P489421
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-27-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

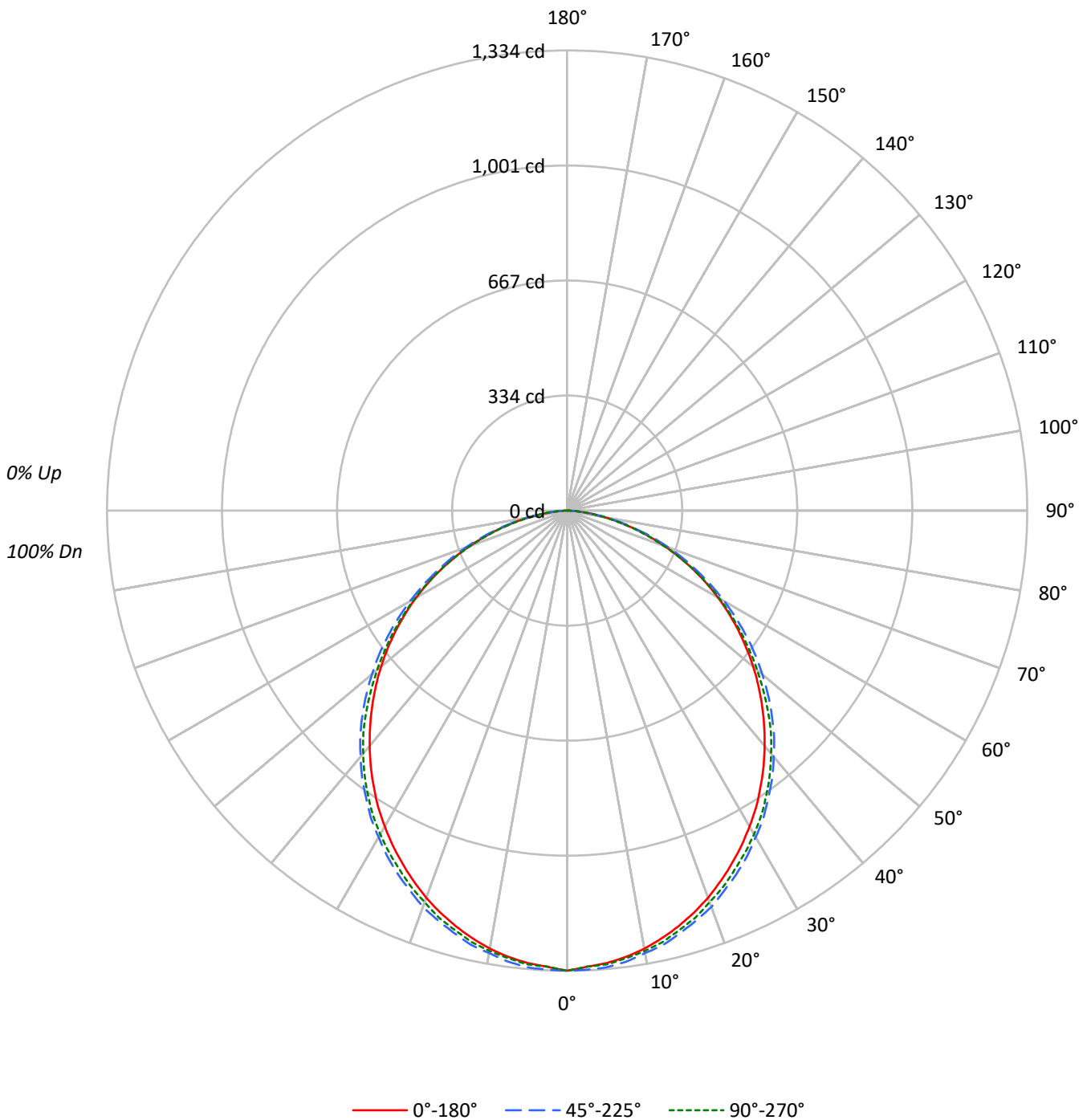
Lumens per Lamp: N/A
Luminaire Lumens: 3506.9 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
Input Voltage (V): NR
Input Current (A_{in}): 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

TEST NUMBER: P489421

CATALOG NUMBER: CLM-24-4-INS-A12125-LD4-1STD-27-120-EDD

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°	1795	1795	1795
5°	1778	1795	1784
10°	1762	1780	1771
15°	1737	1766	1753
20°	1710	1751	1730
25°	1677	1726	1706
30°	1643	1699	1683
35°	1606	1670	1654
40°	1564	1636	1615
45°	1520	1597	1567
50°	1475	1546	1505
55°	1421	1488	1442
60°	1361	1417	1373
65°	1282	1331	1283
70°	1180	1227	1167
75°	1039	1086	1023
80°	845	881	834
85°	588	627	611



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.6	3.6
10°-20°	356.0	10.2
20°-30°	531.0	15.1
30°-40°	629.2	17.9
40°-50°	636.6	18.2
50°-60°	556.0	15.9
60°-70°	406.3	11.6
70°-80°	216.2	6.2
80°-90°	50.0	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°	1012.6	28.9
0°-40°	1641.8	46.8
0°-60°	2834.4	80.8
0°-90°	3506.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3506.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1334	1334	1334	1334	1334	
5°	1316	1319	1329	1332	1321	125
15°	1247	1256	1268	1275	1259	352
25°	1130	1143	1162	1167	1149	520
35°	978	993	1016	1024	1007	611
45°	799	813	839	840	823	616
55°	606	618	634	625	615	542
65°	403	411	418	410	403	399
75°	200	204	209	201	197	212
85°	38	39	41	41	40	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1333.9	1333.9	1333.9	1333.9	1333.9
2.5°	1323.5	1327.8	1332.2	1334.2	1323.3
5°	1316.5	1319.0	1328.9	1332.0	1320.7
7.5°	1305.1	1308.9	1318.5	1319.9	1309.0
10°	1289.6	1296.2	1302.6	1309.6	1296.4
12.5°	1269.7	1278.7	1289.6	1290.8	1280.8
15°	1247.3	1255.7	1267.5	1275.1	1258.6
17.5°	1222.3	1230.4	1245.6	1247.0	1237.0
20°	1194.4	1204.4	1222.7	1225.9	1208.0
22.5°	1162.7	1176.2	1191.4	1194.5	1181.3
25°	1129.5	1143.4	1162.3	1166.6	1148.9
27.5°	1094.7	1108.1	1129.3	1132.4	1117.5
30°	1057.5	1070.0	1093.3	1098.5	1083.3
32.5°	1019.7	1032.2	1058.0	1062.3	1047.6
35°	977.7	993.0	1016.5	1023.6	1007.0
37.5°	934.9	949.8	976.5	982.8	965.1
40°	890.6	905.3	931.6	936.8	919.7
42.5°	845.3	860.0	888.1	888.9	874.7
45°	799.0	813.2	839.3	840.0	823.4
47.5°	752.0	766.3	789.7	787.0	771.5
50°	704.5	718.1	738.5	733.2	719.2
52.5°	655.3	668.5	687.8	679.2	666.0
55°	605.8	618.0	634.2	625.0	614.7
57.5°	555.9	568.3	580.6	571.3	562.4
60°	505.6	516.4	526.6	517.1	510.3
62.5°	454.5	463.8	472.5	463.5	457.1
65°	402.8	411.0	418.2	409.8	403.0
67.5°	351.3	358.3	365.0	356.3	349.2
70°	299.9	305.9	312.0	303.1	296.6
72.5°	249.2	254.5	259.9	251.3	245.6
75°	199.8	204.4	208.9	201.2	196.8
77.5°	152.7	156.6	159.7	154.8	150.5
80°	109.0	111.9	113.7	111.7	107.7
82.5°	70.0	72.1	73.1	73.0	70.3
85°	38.1	38.8	40.6	41.0	39.6
87.5°	14.7	15.7	16.1	17.4	16.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)