

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: P488949

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-3LO-50-120-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: P488949
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-LD4-3LO-50-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

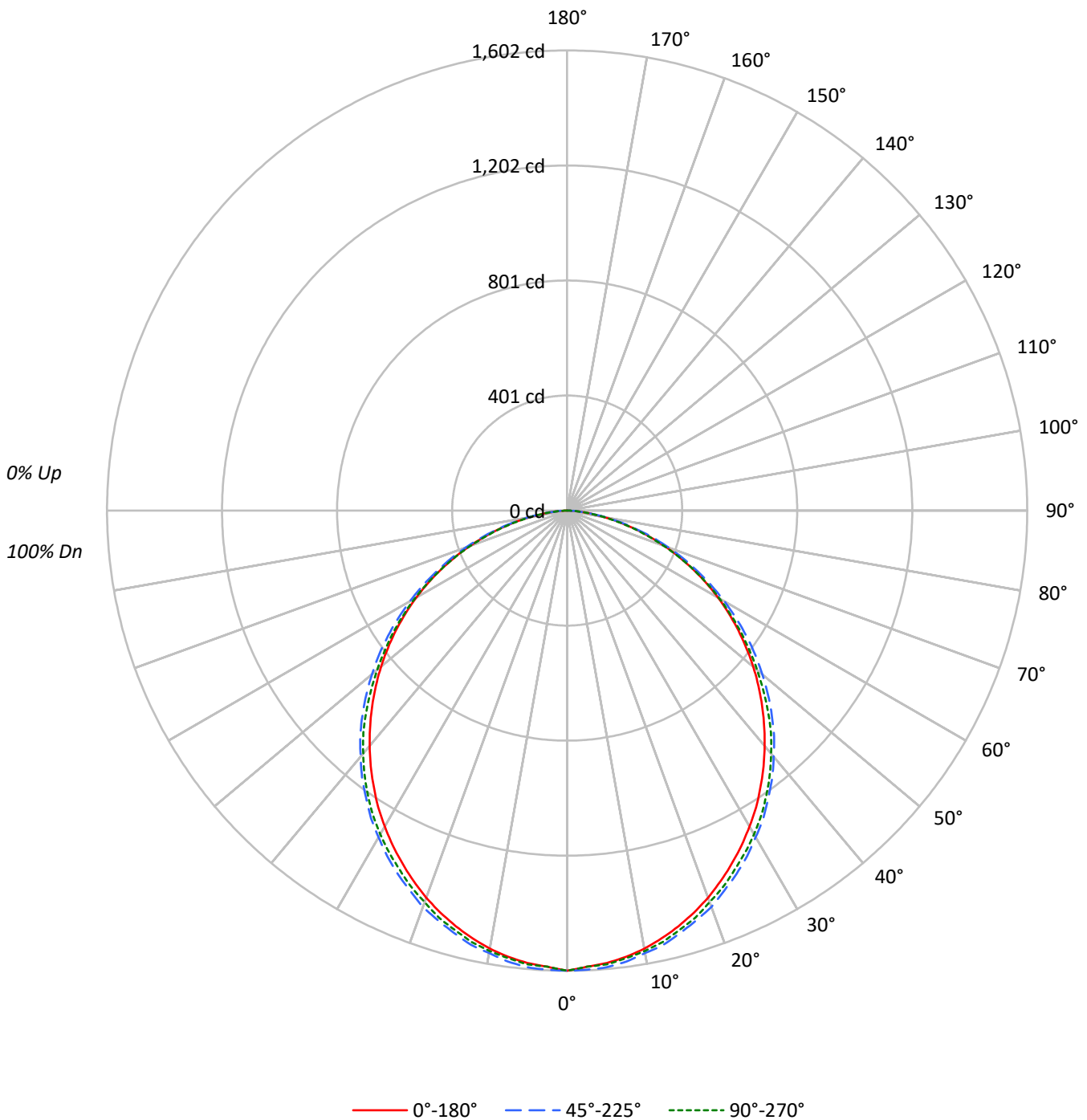
Lumens per Lamp: N/A
Luminaire Lumens: 4211.5 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
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°	4311	4311	4311
5°	4271	4311	4284
10°	4232	4275	4254
15°	4173	4240	4211
20°	4107	4205	4154
25°	4027	4144	4097
30°	3946	4080	4043
35°	3857	4010	3973
40°	3757	3930	3880
45°	3651	3836	3763
50°	3542	3713	3616
55°	3413	3573	3463
60°	3268	3404	3299
65°	3080	3198	3082
70°	2834	2948	2803
75°	2495	2609	2457
80°	2027	2115	2004
85°	1411	1504	1470



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.9	3.6
10°-20°	427.5	10.2
20°-30°	637.6	15.1
30°-40°	755.6	17.9
40°-50°	764.6	18.2
50°-60°	667.7	15.9
60°-70°	487.9	11.6
70°-80°	259.6	6.2
80°-90°	60.0	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°	1216.0	28.9
0°-40°	1971.6	46.8
0°-60°	3403.9	80.8
0°-90°	4211.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4211.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1602	1602	1602	1602	1602	
5°	1581	1584	1596	1600	1586	150
15°	1498	1508	1522	1531	1511	422
25°	1356	1373	1396	1401	1380	625
35°	1174	1192	1221	1229	1209	734
45°	960	976	1008	1009	989	740
55°	728	742	762	750	738	650
65°	484	494	502	492	484	479
75°	240	246	251	242	236	255
85°	46	47	49	49	48	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1601.9	1601.9	1601.9	1601.9	1601.9
2.5°	1589.4	1594.6	1599.9	1602.2	1589.2
5°	1581.0	1584.0	1595.9	1599.6	1586.0
7.5°	1567.4	1571.9	1583.4	1585.0	1572.0
10°	1548.7	1556.7	1564.4	1572.7	1556.8
12.5°	1524.8	1535.6	1548.7	1550.2	1538.1
15°	1497.9	1507.9	1522.1	1531.3	1511.4
17.5°	1467.9	1477.6	1495.9	1497.6	1485.6
20°	1434.3	1446.4	1468.4	1472.2	1450.7
22.5°	1396.3	1412.5	1430.8	1434.5	1418.6
25°	1356.4	1373.1	1395.8	1401.0	1379.8
27.5°	1314.7	1330.7	1356.2	1359.9	1342.0
30°	1269.9	1285.0	1313.0	1319.2	1301.0
32.5°	1224.5	1239.6	1270.6	1275.8	1258.1
35°	1174.1	1192.5	1220.7	1229.2	1209.4
37.5°	1122.7	1140.6	1172.6	1180.3	1159.0
40°	1069.5	1087.2	1118.7	1125.1	1104.5
42.5°	1015.1	1032.8	1066.5	1067.5	1050.5
45°	959.5	976.5	1007.9	1008.7	988.9
47.5°	903.1	920.3	948.3	945.2	926.5
50°	846.0	862.4	886.9	880.6	863.7
52.5°	786.9	802.8	826.0	815.6	799.8
55°	727.5	742.2	761.6	750.5	738.2
57.5°	667.6	682.5	697.3	686.1	675.4
60°	607.2	620.2	632.4	621.0	612.9
62.5°	545.8	556.9	567.5	556.6	548.9
65°	483.7	493.5	502.2	492.2	484.0
67.5°	421.9	430.3	438.3	427.9	419.4
70°	360.2	367.3	374.7	364.0	356.2
72.5°	299.3	305.6	312.1	301.8	294.9
75°	240.0	245.5	250.9	241.7	236.3
77.5°	183.4	188.1	191.8	185.9	180.8
80°	130.8	134.4	136.5	134.2	129.3
82.5°	84.1	86.6	87.8	87.6	84.5
85°	45.7	46.6	48.7	49.2	47.6
87.5°	17.7	18.9	19.4	20.9	19.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)