

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: P488975

Luminaire Tested: **CLM-24-2-INS-A12125-LD4-4LO-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: P488975
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-LD4-4LO-20-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

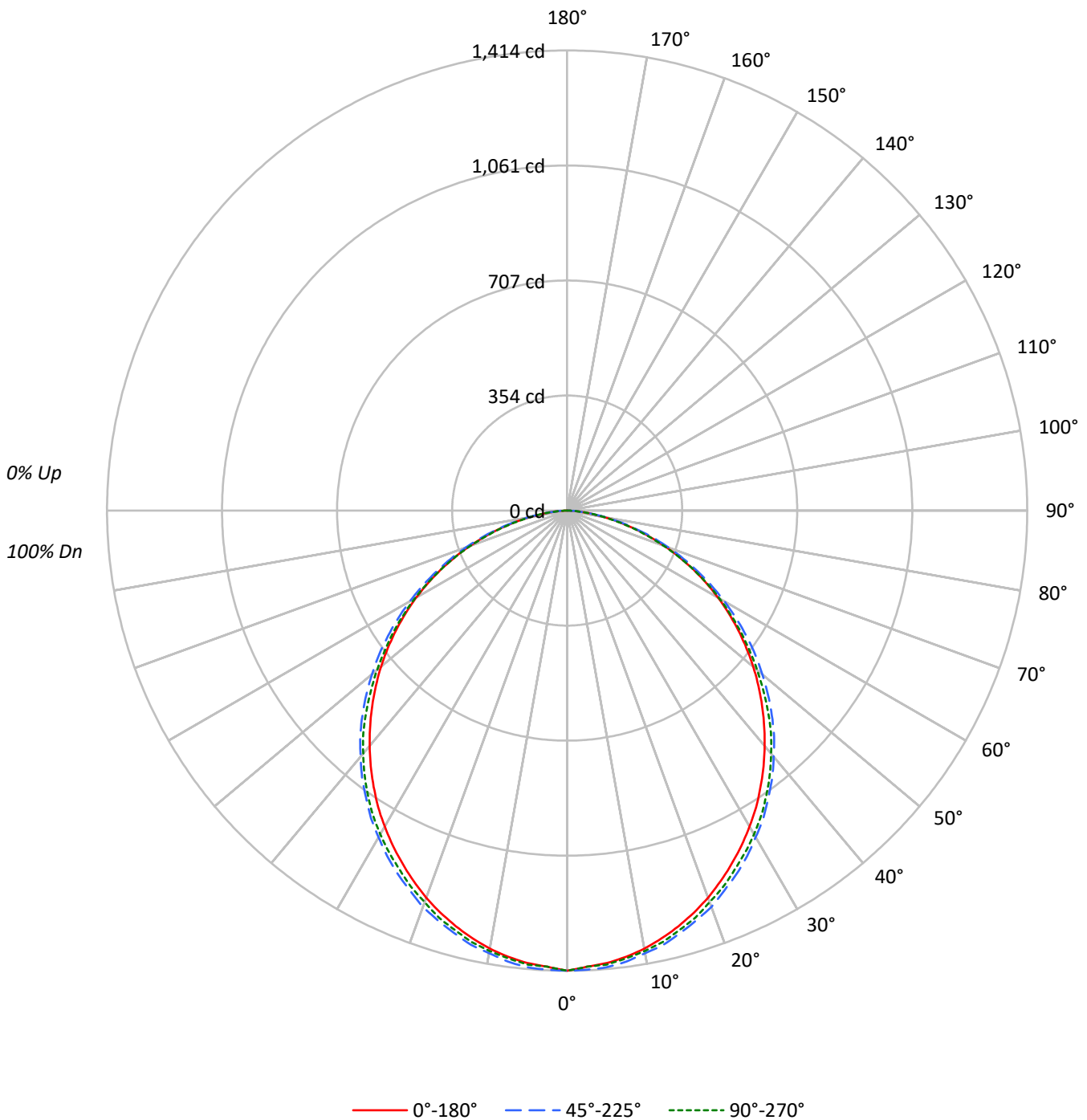
Lumens per Lamp: N/A
Luminaire Lumens: 3717.5 lumens
Efficiency: N/A
Efficacy: 79.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 46.8
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°	3805	3805	3805
5°	3770	3805	3782
10°	3735	3773	3755
15°	3684	3743	3717
20°	3626	3712	3667
25°	3555	3658	3616
30°	3483	3601	3568
35°	3405	3540	3507
40°	3316	3469	3425
45°	3223	3386	3322
50°	3126	3278	3192
55°	3013	3154	3057
60°	2885	3004	2912
65°	2718	2823	2720
70°	2501	2602	2474
75°	2203	2302	2169
80°	1790	1867	1770
85°	1247	1328	1297



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.2	3.6
10°-20°	377.4	10.2
20°-30°	562.8	15.1
30°-40°	667.0	17.9
40°-50°	674.9	18.2
50°-60°	589.4	15.9
60°-70°	430.7	11.6
70°-80°	229.2	6.2
80°-90°	53.0	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°	1073.4	28.9
0°-40°	1740.4	46.8
0°-60°	3004.6	80.8
0°-90°	3717.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3717.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1414	1414	1414	1414	1414	
5°	1396	1398	1409	1412	1400	132
15°	1322	1331	1344	1352	1334	373
25°	1197	1212	1232	1237	1218	552
35°	1036	1053	1078	1085	1068	648
45°	847	862	890	890	873	653
55°	642	655	672	662	652	574
65°	427	436	443	434	427	422
75°	212	217	221	213	209	225
85°	40	41	43	44	42	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1414.0	1414.0	1414.0	1414.0	1414.0
2.5°	1403.0	1407.5	1412.2	1414.3	1402.8
5°	1395.6	1398.2	1408.7	1411.9	1400.0
7.5°	1383.5	1387.5	1397.7	1399.1	1387.6
10°	1367.0	1374.1	1380.9	1388.2	1374.2
12.5°	1345.9	1355.5	1367.0	1368.3	1357.7
15°	1322.2	1331.1	1343.6	1351.7	1334.2
17.5°	1295.7	1304.2	1320.5	1321.9	1311.3
20°	1266.1	1276.7	1296.1	1299.5	1280.5
22.5°	1232.5	1246.8	1263.0	1266.2	1252.2
25°	1197.3	1212.0	1232.1	1236.6	1217.9
27.5°	1160.5	1174.6	1197.1	1200.4	1184.6
30°	1121.0	1134.2	1159.0	1164.4	1148.4
32.5°	1080.9	1094.2	1121.6	1126.1	1110.5
35°	1036.4	1052.6	1077.5	1085.0	1067.5
37.5°	991.0	1006.8	1035.1	1041.9	1023.0
40°	944.0	959.7	987.5	993.1	975.0
42.5°	896.0	911.6	941.4	942.3	927.3
45°	847.0	862.0	889.7	890.4	872.9
47.5°	797.2	812.3	837.1	834.3	817.8
50°	746.8	761.2	782.9	777.3	762.4
52.5°	694.6	708.6	729.1	720.0	706.0
55°	642.2	655.1	672.2	662.5	651.6
57.5°	589.3	602.4	615.5	605.6	596.2
60°	536.0	547.5	558.2	548.2	541.0
62.5°	481.7	491.6	500.9	491.3	484.5
65°	426.9	435.6	443.3	434.5	427.2
67.5°	372.4	379.8	386.9	377.7	370.2
70°	317.9	324.3	330.7	321.3	314.4
72.5°	264.1	269.7	275.5	266.4	260.3
75°	211.9	216.7	221.4	213.3	208.6
77.5°	161.9	166.0	169.3	164.1	159.6
80°	115.5	118.6	120.5	118.4	114.2
82.5°	74.3	76.5	77.5	77.3	74.5
85°	40.4	41.1	43.0	43.5	42.0
87.5°	15.6	16.6	17.1	18.4	16.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)