

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: P488355

Luminaire Tested: **CLM-12-2-INS-A12125-LD4-2HI-30-120-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: P488355
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-12-2-INS-A12125-LD4-2HI-30-120-EDD
Description: 1X2 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

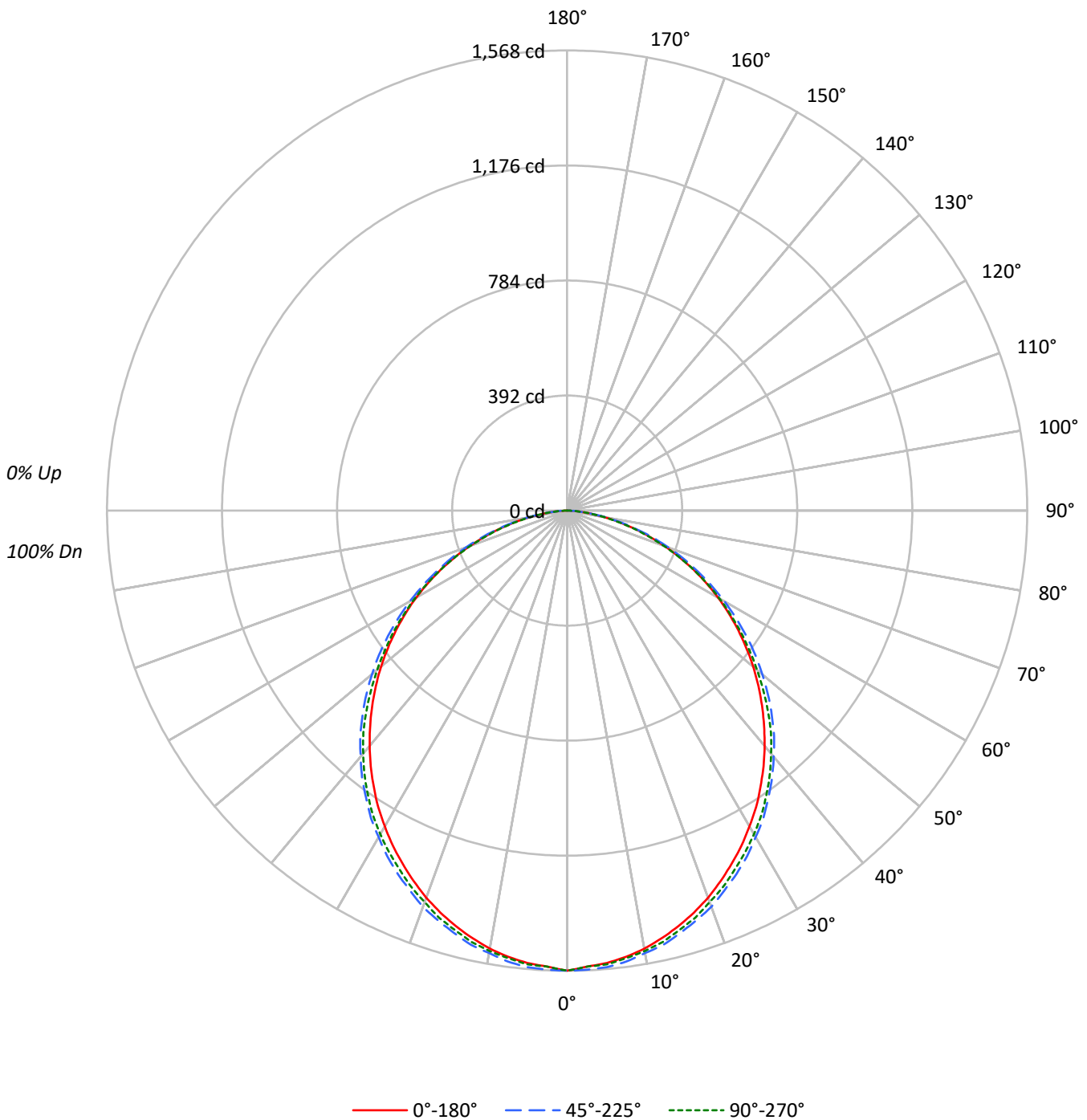
Lumens per Lamp: N/A
Luminaire Lumens: 4121.7 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
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

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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°	8437	8437	8437
5°	8359	8438	8386
10°	8283	8367	8326
15°	8168	8300	8242
20°	8040	8231	8132
25°	7883	8112	8019
30°	7724	7986	7912
35°	7550	7849	7776
40°	7354	7692	7595
45°	7147	7508	7366
50°	6933	7268	7078
55°	6681	6993	6779
60°	6396	6662	6456
65°	6029	6259	6032
70°	5547	5770	5485
75°	4885	5105	4810
80°	3970	4141	3924
85°	2766	2946	2878



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.7	3.6
10°-20°	418.4	10.2
20°-30°	624.0	15.1
30°-40°	739.5	17.9
40°-50°	748.3	18.2
50°-60°	653.5	15.9
60°-70°	477.5	11.6
70°-80°	254.1	6.2
80°-90°	58.7	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°	1190.1	28.9
0°-40°	1929.6	46.8
0°-60°	3331.3	80.8
0°-90°	4121.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4121.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1568	1568	1568	1568	1568	
5°	1547	1550	1562	1566	1552	147
15°	1466	1476	1490	1499	1479	413
25°	1328	1344	1366	1371	1350	612
35°	1149	1167	1195	1203	1184	719
45°	939	956	986	987	968	724
55°	712	726	745	734	722	636
65°	473	483	492	482	474	468
75°	235	240	246	236	231	250
85°	45	46	48	48	47	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1567.7	1567.7	1567.7	1567.7	1567.7
2.5°	1555.5	1560.6	1565.8	1568.1	1555.3
5°	1547.3	1550.3	1561.9	1565.5	1552.2
7.5°	1533.9	1538.3	1549.6	1551.3	1538.5
10°	1515.6	1523.5	1531.0	1539.2	1523.6
12.5°	1492.3	1502.9	1515.6	1517.1	1505.4
15°	1466.0	1475.8	1489.7	1498.7	1479.2
17.5°	1436.6	1446.1	1464.0	1465.7	1453.9
20°	1403.8	1415.5	1437.1	1440.8	1419.8
22.5°	1366.5	1382.4	1400.3	1403.9	1388.4
25°	1327.5	1343.8	1366.0	1371.1	1350.3
27.5°	1286.6	1302.3	1327.3	1330.9	1313.4
30°	1242.9	1257.6	1285.0	1291.0	1273.2
32.5°	1198.4	1213.1	1243.5	1248.6	1231.3
35°	1149.1	1167.1	1194.7	1203.0	1183.6
37.5°	1098.8	1116.3	1147.6	1155.1	1134.2
40°	1046.7	1064.0	1094.9	1101.1	1081.0
42.5°	993.4	1010.8	1043.7	1044.7	1028.1
45°	939.0	955.7	986.4	987.2	967.8
47.5°	883.8	900.7	928.1	925.0	906.7
50°	828.0	844.0	868.0	861.8	845.3
52.5°	770.2	785.7	808.4	798.2	782.7
55°	712.0	726.4	745.3	734.5	722.5
57.5°	653.4	667.9	682.4	671.5	661.0
60°	594.2	607.0	618.9	607.8	599.8
62.5°	534.1	545.1	555.4	544.7	537.2
65°	473.4	483.0	491.5	481.7	473.7
67.5°	412.9	421.1	428.9	418.8	410.5
70°	352.5	359.5	366.7	356.2	348.6
72.5°	292.9	299.1	305.4	295.3	288.6
75°	234.9	240.3	245.5	236.5	231.3
77.5°	179.5	184.1	187.7	182.0	176.9
80°	128.1	131.5	133.6	131.3	126.6
82.5°	82.3	84.8	85.9	85.8	82.7
85°	44.8	45.6	47.7	48.2	46.6
87.5°	17.3	18.5	18.9	20.4	18.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)