

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: P490155

Luminaire Tested: **CLP-12-4-INS-A12125-LD4-1HI-30-120-EDD**

Issue Date: 3/12/2021

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: P490155
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-115-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/12/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: CLP-12-4-INS-A12125-LD4-1HI-30-120-EDD
Description: 1X4 CLP LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

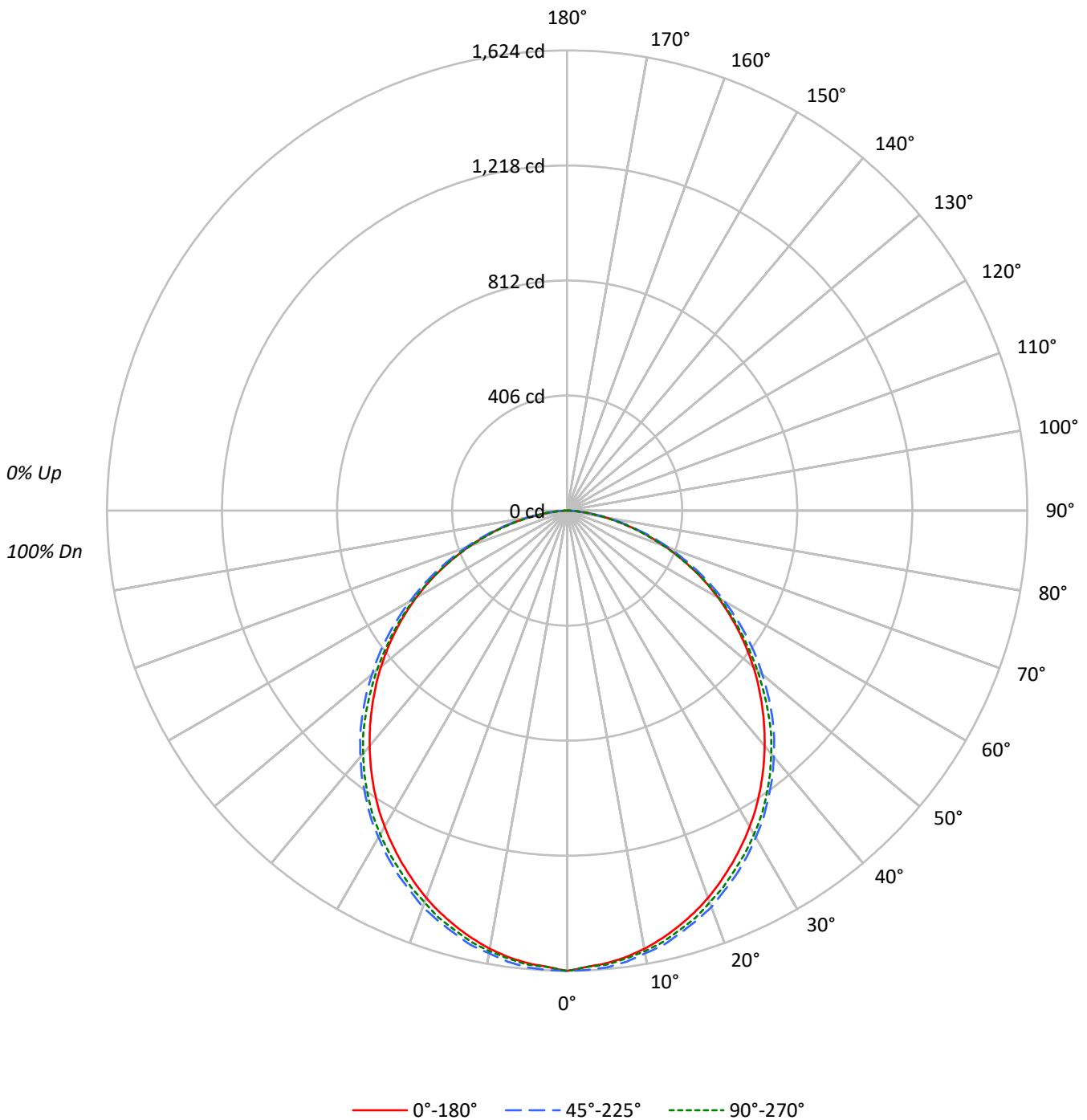
Lumens per Lamp: N/A
Luminaire Lumens: 4270.9 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
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°	4371	4371	4371
5°	4331	4372	4345
10°	4291	4335	4314
15°	4232	4300	4270
20°	4166	4264	4213
25°	4084	4203	4154
30°	4002	4137	4099
35°	3912	4067	4029
40°	3810	3985	3935
45°	3703	3890	3816
50°	3592	3765	3667
55°	3461	3623	3512
60°	3314	3451	3345
65°	3123	3243	3125
70°	2873	2990	2842
75°	2531	2645	2492
80°	2056	2145	2033
85°	1433	1525	1488



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.0	3.6
10°-20°	433.6	10.2
20°-30°	646.6	15.1
30°-40°	766.3	17.9
40°-50°	775.3	18.2
50°-60°	677.1	15.9
60°-70°	494.8	11.6
70°-80°	263.3	6.2
80°-90°	60.8	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°	1233.2	28.9
0°-40°	1999.4	46.8
0°-60°	3451.9	80.8
0°-90°	4270.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4270.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1624	1624	1624	1624	1624	
5°	1603	1606	1618	1622	1608	152
15°	1519	1529	1544	1553	1533	428
25°	1376	1392	1416	1421	1399	634
35°	1191	1209	1238	1247	1226	745
45°	973	990	1022	1023	1003	751
55°	738	753	772	761	749	659
65°	490	500	509	499	491	485
75°	243	249	254	245	240	259
85°	46	47	49	50	48	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1624.5	1624.5	1624.5	1624.5	1624.5
2.5°	1611.8	1617.1	1622.5	1624.8	1611.6
5°	1603.3	1606.4	1618.4	1622.1	1608.4
7.5°	1589.5	1594.0	1605.7	1607.4	1594.2
10°	1570.5	1578.6	1586.4	1594.9	1578.8
12.5°	1546.3	1557.3	1570.5	1572.0	1559.8
15°	1519.1	1529.2	1543.6	1552.9	1532.8
17.5°	1488.6	1498.4	1517.0	1518.7	1506.5
20°	1454.6	1466.8	1489.1	1493.0	1471.2
22.5°	1416.0	1432.4	1451.0	1454.7	1438.7
25°	1375.5	1392.5	1415.5	1420.7	1399.2
27.5°	1333.2	1349.5	1375.4	1379.1	1361.0
30°	1287.9	1303.1	1331.5	1337.8	1319.3
32.5°	1241.8	1257.0	1288.5	1293.8	1275.8
35°	1190.7	1209.3	1237.9	1246.6	1226.4
37.5°	1138.6	1156.7	1189.2	1197.0	1175.3
40°	1084.6	1102.5	1134.5	1140.9	1120.1
42.5°	1029.4	1047.3	1081.5	1082.5	1065.3
45°	973.0	990.3	1022.1	1023.0	1002.8
47.5°	915.8	933.3	961.7	958.5	939.5
50°	857.9	874.5	899.4	893.0	875.9
52.5°	798.0	814.1	837.6	827.1	811.1
55°	737.8	752.7	772.3	761.1	748.6
57.5°	677.0	692.1	707.1	695.8	685.0
60°	615.7	628.9	641.3	629.8	621.5
62.5°	553.5	564.8	575.5	564.5	556.7
65°	490.5	500.5	509.3	499.1	490.8
67.5°	427.9	436.3	444.5	434.0	425.3
70°	365.2	372.5	380.0	369.1	361.2
72.5°	303.5	309.9	316.5	306.0	299.1
75°	243.4	249.0	254.4	245.1	239.7
77.5°	186.0	190.7	194.5	188.5	183.3
80°	132.7	136.2	138.4	136.1	131.2
82.5°	85.3	87.8	89.0	88.9	85.6
85°	46.4	47.2	49.4	49.9	48.2
87.5°	17.9	19.1	19.6	21.2	19.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)