

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: P490160

Luminaire Tested: **CLP-12-4-INS-A12125-LD4-1HI-50-120-EDD-90**

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: P490160
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-50-120-EDD-90
Description: 1X4 CLP LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

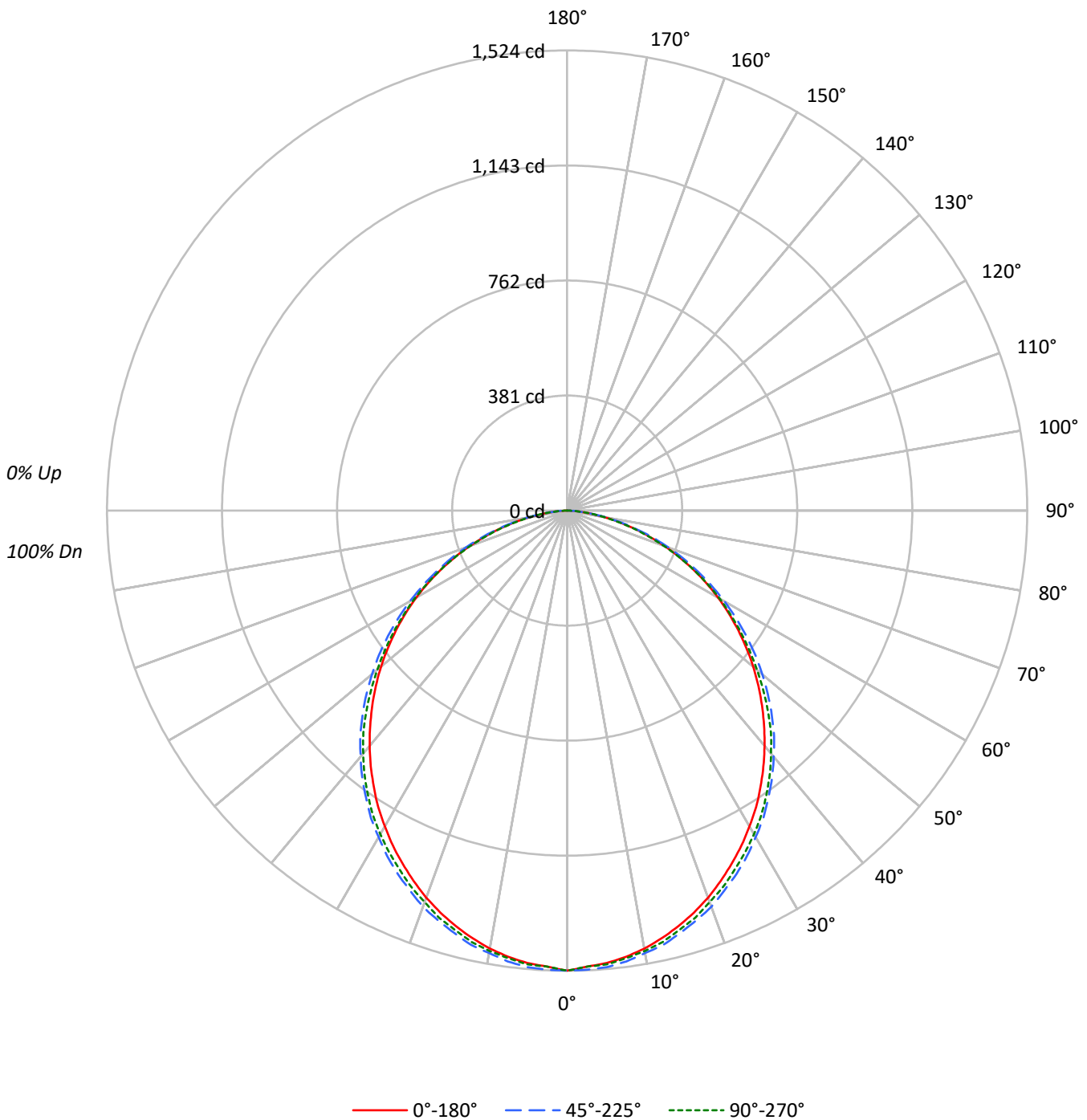
Lumens per Lamp: N/A
Luminaire Lumens: 4005.7 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	4100	4100	4100
5°	4062	4100	4075
10°	4025	4066	4046
15°	3969	4033	4005
20°	3907	3999	3951
25°	3831	3942	3896
30°	3753	3880	3845
35°	3669	3814	3779
40°	3573	3738	3691
45°	3473	3648	3580
50°	3369	3532	3439
55°	3247	3398	3294
60°	3108	3237	3137
65°	2929	3042	2932
70°	2696	2804	2666
75°	2374	2481	2337
80°	1929	2013	1906
85°	1343	1433	1396



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.5	3.6
10°-20°	406.6	10.2
20°-30°	606.5	15.1
30°-40°	718.7	17.9
40°-50°	727.2	18.2
50°-60°	635.1	15.9
60°-70°	464.1	11.6
70°-80°	246.9	6.2
80°-90°	57.1	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°	1156.6	28.9
0°-40°	1875.3	46.8
0°-60°	3237.6	80.8
0°-90°	4005.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4005.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1524	1524	1524	1524	1524	
5°	1504	1507	1518	1521	1508	143
15°	1425	1434	1448	1456	1438	402
25°	1290	1306	1328	1332	1312	594
35°	1117	1134	1161	1169	1150	698
45°	913	929	959	959	941	704
55°	692	706	724	714	702	619
65°	460	469	478	468	460	455
75°	228	234	239	230	225	243
85°	44	44	46	47	45	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1523.6	1523.6	1523.6	1523.6	1523.6
2.5°	1511.7	1516.6	1521.7	1523.9	1511.6
5°	1503.8	1506.6	1517.9	1521.4	1508.5
7.5°	1490.8	1495.1	1506.0	1507.6	1495.2
10°	1473.0	1480.6	1487.9	1495.8	1480.8
12.5°	1450.3	1460.6	1473.0	1474.4	1463.0
15°	1424.7	1434.3	1447.7	1456.5	1437.6
17.5°	1396.2	1405.4	1422.8	1424.4	1413.0
20°	1364.2	1375.7	1396.6	1400.3	1379.8
22.5°	1328.1	1343.5	1360.9	1364.4	1349.3
25°	1290.1	1306.0	1327.6	1332.5	1312.3
27.5°	1250.4	1265.7	1290.0	1293.4	1276.5
30°	1207.9	1222.2	1248.8	1254.7	1237.4
32.5°	1164.7	1179.0	1208.5	1213.4	1196.6
35°	1116.8	1134.2	1161.1	1169.2	1150.3
37.5°	1067.9	1084.9	1115.3	1122.6	1102.3
40°	1017.2	1034.1	1064.1	1070.1	1050.6
42.5°	965.5	982.3	1014.4	1015.3	999.1
45°	912.6	928.8	958.7	959.4	940.6
47.5°	859.0	875.3	902.0	899.0	881.2
50°	804.7	820.2	843.6	837.5	821.5
52.5°	748.5	763.6	785.6	775.8	760.7
55°	692.0	705.9	724.3	713.9	702.1
57.5°	635.0	649.1	663.2	652.6	642.4
60°	577.5	589.9	601.5	590.7	582.9
62.5°	519.1	529.7	539.7	529.4	522.1
65°	460.0	469.4	477.7	468.1	460.4
67.5°	401.3	409.2	416.9	407.0	398.9
70°	342.6	349.4	356.4	346.2	338.8
72.5°	284.6	290.7	296.9	287.0	280.5
75°	228.3	233.5	238.6	229.9	224.8
77.5°	174.5	178.9	182.4	176.8	171.9
80°	124.5	127.8	129.9	127.6	123.0
82.5°	80.0	82.4	83.5	83.3	80.3
85°	43.5	44.3	46.4	46.8	45.2
87.5°	16.8	17.9	18.4	19.8	18.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)