

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: P490045

Luminaire Tested: **CLP-12-2-INS-A19156-LD4-2HI-27-120-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: P490045  
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-12-2-INS-A19156-LD4-2HI-27-120-EDD  
Description: 1X2 CLP LED LUMINAIRE WITH A19156 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

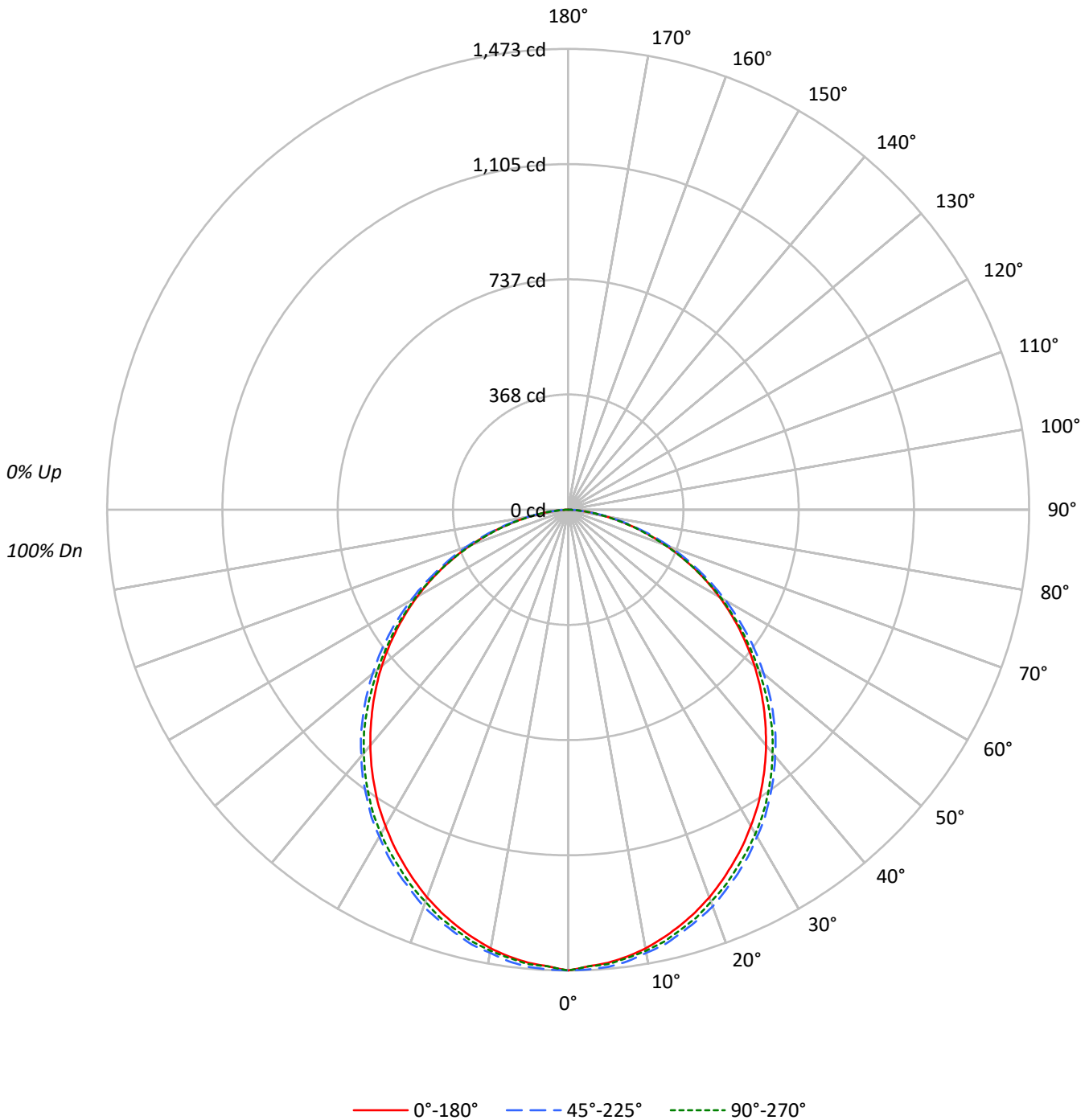
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3871.9 lumens  
Efficiency: N/A  
Efficacy: 89.6 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<sub>in</sub>): 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°	7926	7926	7926
5°	7853	7927	7878
10°	7781	7860	7822
15°	7673	7797	7743
20°	7553	7732	7639
25°	7405	7620	7533
30°	7255	7502	7433
35°	7092	7374	7305
40°	6908	7226	7135
45°	6714	7053	6919
50°	6512	6827	6649
55°	6276	6570	6368
60°	6008	6258	6064
65°	5663	5880	5667
70°	5210	5421	5152
75°	4587	4795	4519
80°	3729	3890	3685
85°	2594	2766	2699



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	138.7	3.6
10°-20°	393.1	10.2
20°-30°	586.2	15.1
30°-40°	694.7	17.9
40°-50°	702.9	18.2
50°-60°	613.9	15.9
60°-70°	448.6	11.6
70°-80°	238.7	6.2
80°-90°	55.2	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°	1118.0	28.9
0°-40°	1812.6	46.8
0°-60°	3129.5	80.8
0°-90°	3871.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3871.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1473	1473	1473	1473	1473	
5°	1454	1456	1467	1471	1458	138
15°	1377	1386	1399	1408	1390	388
25°	1247	1262	1283	1288	1268	575
35°	1080	1096	1122	1130	1112	675
45°	882	898	927	927	909	681
55°	669	682	700	690	679	598
65°	445	454	462	452	445	440
75°	221	226	231	222	217	235
85°	42	43	45	45	44	53
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1472.7	1472.7	1472.7	1472.7	1472.7
2.5°	1461.2	1466.0	1470.9	1473.0	1461.1
5°	1453.6	1456.3	1467.2	1470.6	1458.2
7.5°	1441.0	1445.1	1455.7	1457.2	1445.3
10°	1423.8	1431.2	1438.2	1445.9	1431.3
12.5°	1401.8	1411.8	1423.8	1425.2	1414.1
15°	1377.1	1386.3	1399.4	1407.8	1389.6
17.5°	1349.5	1358.4	1375.3	1376.8	1365.8
20°	1318.7	1329.7	1350.0	1353.5	1333.7
22.5°	1283.7	1298.6	1315.5	1318.8	1304.3
25°	1247.0	1262.4	1283.2	1288.0	1268.5
27.5°	1208.7	1223.4	1246.9	1250.2	1233.8
30°	1167.5	1181.3	1207.1	1212.8	1196.1
32.5°	1125.8	1139.6	1168.2	1172.9	1156.6
35°	1079.5	1096.3	1122.3	1130.1	1111.8
37.5°	1032.2	1048.6	1078.1	1085.1	1065.5
40°	983.3	999.5	1028.5	1034.4	1015.5
42.5°	933.2	949.5	980.5	981.4	965.8
45°	882.1	897.8	926.6	927.4	909.1
47.5°	830.3	846.1	871.9	868.9	851.8
50°	777.8	792.8	815.4	809.6	794.1
52.5°	723.5	738.1	759.4	749.9	735.3
55°	668.9	682.4	700.2	690.0	678.7
57.5°	613.8	627.4	641.1	630.8	621.0
60°	558.2	570.2	581.4	571.0	563.4
62.5°	501.8	512.0	521.7	511.7	504.7
65°	444.7	453.7	461.7	452.5	445.0
67.5°	387.9	395.6	402.9	393.4	385.6
70°	331.1	337.7	344.5	334.7	327.4
72.5°	275.1	281.0	286.9	277.4	271.1
75°	220.6	225.7	230.6	222.2	217.3
77.5°	168.6	172.9	176.3	170.9	166.2
80°	120.3	123.5	125.5	123.4	118.9
82.5°	77.3	79.6	80.7	80.6	77.6
85°	42.0	42.8	44.8	45.3	43.7
87.5°	16.3	17.3	17.8	19.2	17.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)