

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: P490053

Luminaire Tested: **CLP-12-2-INS-A19156-LD4-2HI-50-120-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: P490053  
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-50-120-EDD  
Description: 1X2 CLP LED LUMINAIRE WITH A19156 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

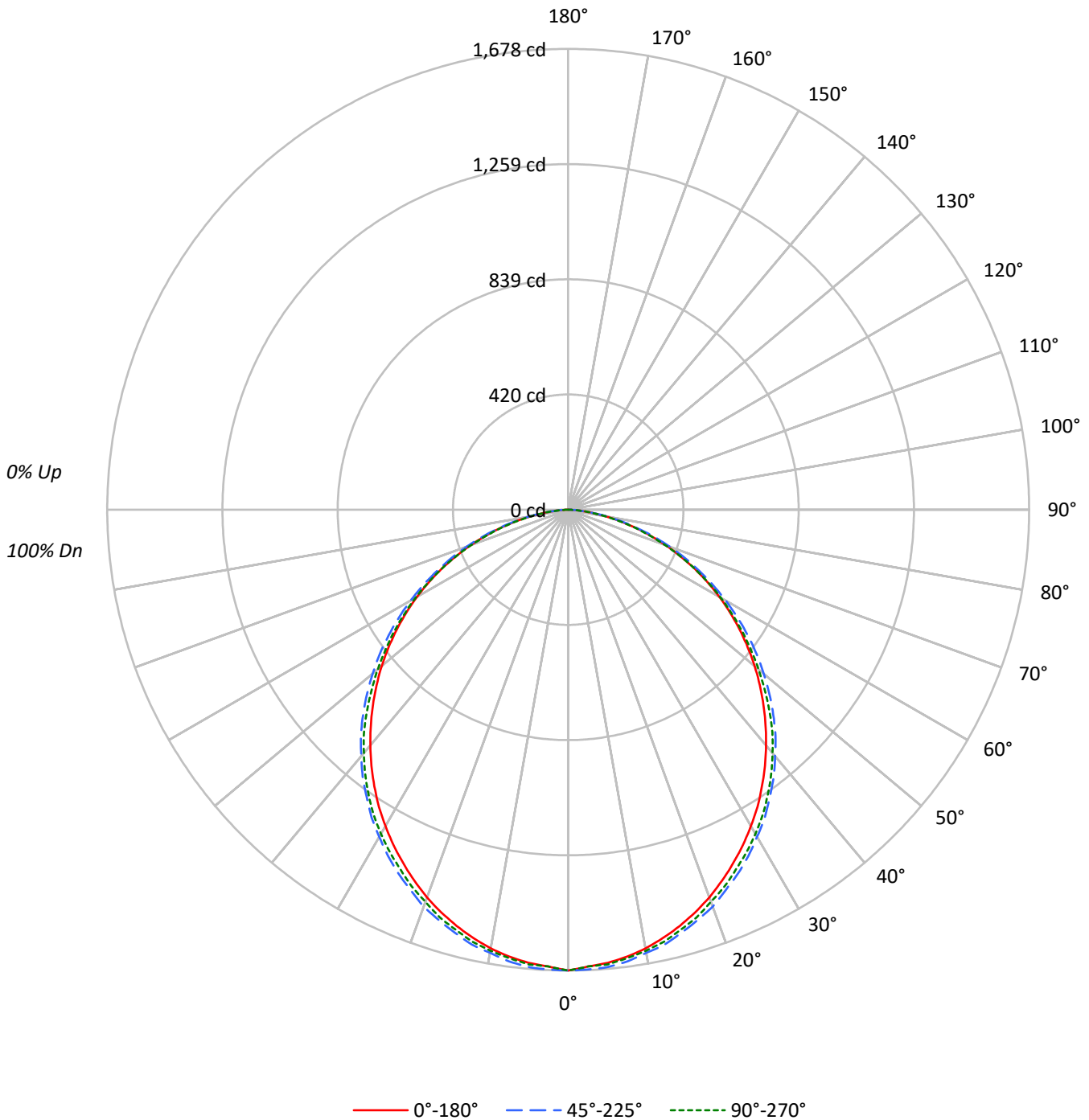
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4411.5 lumens  
Efficiency: N/A  
Efficacy: 102.1 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°	9031	9031	9031
5°	8947	9031	8976
10°	8865	8955	8912
15°	8743	8884	8821
20°	8605	8809	8703
25°	8437	8682	8583
30°	8267	8547	8469
35°	8081	8401	8323
40°	7871	8233	8129
45°	7650	8036	7884
50°	7420	7778	7575
55°	7151	7485	7256
60°	6846	7130	6910
65°	6451	6700	6457
70°	5937	6176	5871
75°	5228	5465	5149
80°	4249	4432	4200
85°	2958	3149	3075



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	158.0	3.6
10°-20°	447.8	10.2
20°-30°	667.9	15.1
30°-40°	791.5	17.9
40°-50°	800.9	18.2
50°-60°	699.4	15.9
60°-70°	511.1	11.6
70°-80°	272.0	6.2
80°-90°	62.9	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°	1273.8	28.9
0°-40°	2065.3	46.8
0°-60°	3565.6	80.8
0°-90°	4411.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4411.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1678	1678	1678	1678	1678	
5°	1656	1659	1672	1676	1661	157
15°	1569	1580	1594	1604	1583	442
25°	1421	1438	1462	1468	1445	655
35°	1230	1249	1279	1288	1267	769
45°	1005	1023	1056	1057	1036	775
55°	762	778	798	786	773	681
65°	507	517	526	516	507	501
75°	251	257	263	253	248	267
85°	48	49	51	52	50	61
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1678.0	1678.0	1678.0	1678.0	1678.0
2.5°	1664.9	1670.3	1675.9	1678.3	1664.7
5°	1656.1	1659.3	1671.7	1675.5	1661.4
7.5°	1641.8	1646.5	1658.6	1660.3	1646.7
10°	1622.2	1630.6	1638.6	1647.4	1630.8
12.5°	1597.2	1608.6	1622.2	1623.8	1611.2
15°	1569.1	1579.6	1594.4	1604.0	1583.2
17.5°	1537.6	1547.7	1567.0	1568.7	1556.1
20°	1502.5	1515.0	1538.1	1542.1	1519.6
22.5°	1462.6	1479.6	1498.8	1502.6	1486.0
25°	1420.8	1438.3	1462.1	1467.5	1445.3
27.5°	1377.1	1393.9	1420.6	1424.5	1405.8
30°	1330.2	1346.0	1375.4	1381.8	1362.8
32.5°	1282.7	1298.4	1330.9	1336.4	1317.8
35°	1229.9	1249.1	1278.7	1287.6	1266.8
37.5°	1176.1	1194.8	1228.3	1236.4	1214.0
40°	1120.3	1138.8	1171.9	1178.5	1157.0
42.5°	1063.3	1081.8	1117.1	1118.2	1100.4
45°	1005.1	1022.9	1055.8	1056.6	1035.8
47.5°	946.0	964.0	993.4	990.0	970.5
50°	886.2	903.3	929.0	922.4	904.7
52.5°	824.3	840.9	865.2	854.4	837.8
55°	762.1	777.5	797.7	786.2	773.3
57.5°	699.3	714.9	730.4	718.7	707.5
60°	636.0	649.7	662.4	650.5	642.0
62.5°	571.7	583.4	594.4	583.0	575.0
65°	506.6	517.0	526.1	515.6	507.0
67.5°	442.0	450.7	459.1	448.3	439.3
70°	377.3	384.8	392.5	381.3	373.1
72.5°	313.5	320.1	326.9	316.1	308.9
75°	251.4	257.2	262.8	253.1	247.6
77.5°	192.1	197.0	200.9	194.8	189.3
80°	137.1	140.7	143.0	140.6	135.5
82.5°	88.1	90.7	92.0	91.8	88.5
85°	47.9	48.8	51.0	51.6	49.8
87.5°	18.5	19.8	20.3	21.9	20.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)