

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: P490049

Luminaire Tested: **CLP-12-2-INS-A19156-LD4-2HI-35-120-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: P490049  
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-35-120-EDD  
Description: 1X2 CLP LED LUMINAIRE WITH A19156 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

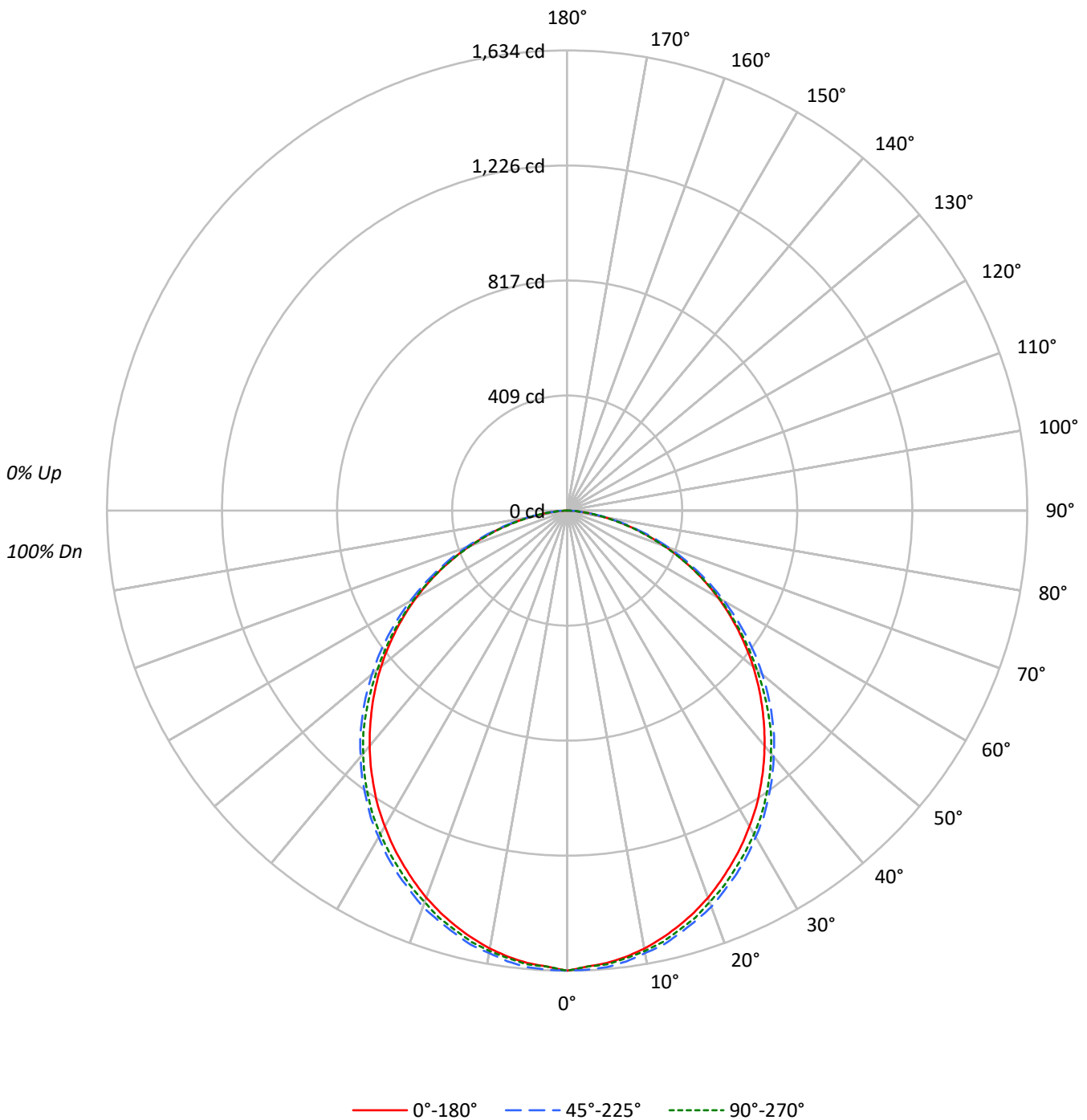
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4294.9 lumens  
Efficiency: N/A  
Efficacy: 99.4 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<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°	8792	8792	8792
5°	8711	8793	8739
10°	8631	8718	8677
15°	8512	8649	8588
20°	8377	8577	8473
25°	8214	8453	8356
30°	8048	8321	8245
35°	7867	8179	8103
40°	7663	8016	7914
45°	7448	7824	7676
50°	7224	7573	7375
55°	6961	7287	7064
60°	6665	6942	6727
65°	6282	6521	6286
70°	5780	6013	5715
75°	5090	5319	5011
80°	4135	4314	4088
85°	2878	3069	2995



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	153.9	3.6
10°-20°	436.0	10.2
20°-30°	650.3	15.1
30°-40°	770.6	17.9
40°-50°	779.7	18.2
50°-60°	680.9	15.9
60°-70°	497.6	11.6
70°-80°	264.8	6.2
80°-90°	61.2	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°	1240.1	28.9
0°-40°	2010.7	46.8
0°-60°	3471.3	80.8
0°-90°	4294.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4294.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1634	1634	1634	1634	1634	
5°	1612	1615	1628	1631	1618	153
15°	1528	1538	1552	1562	1541	431
25°	1383	1400	1423	1429	1407	637
35°	1197	1216	1245	1254	1233	749
45°	978	996	1028	1029	1008	755
55°	742	757	777	765	753	663
65°	493	503	512	502	494	488
75°	245	250	256	246	241	260
85°	47	48	50	50	48	59
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1633.6	1633.6	1633.6	1633.6	1633.6
2.5°	1620.9	1626.1	1631.6	1634.0	1620.7
5°	1612.4	1615.4	1627.5	1631.2	1617.5
7.5°	1598.4	1603.0	1614.7	1616.4	1603.2
10°	1579.3	1587.5	1595.3	1603.8	1587.7
12.5°	1555.0	1566.1	1579.3	1580.9	1568.6
15°	1527.6	1537.8	1552.3	1561.6	1541.4
17.5°	1497.0	1506.8	1525.5	1527.2	1515.0
20°	1462.7	1475.0	1497.5	1501.4	1479.4
22.5°	1423.9	1440.4	1459.2	1462.9	1446.7
25°	1383.3	1400.3	1423.4	1428.7	1407.1
27.5°	1340.7	1357.0	1383.1	1386.8	1368.6
30°	1295.1	1310.4	1339.0	1345.3	1326.7
32.5°	1248.8	1264.1	1295.8	1301.0	1283.0
35°	1197.4	1216.1	1244.9	1253.6	1233.3
37.5°	1145.0	1163.2	1195.9	1203.7	1181.9
40°	1090.7	1108.7	1140.9	1147.4	1126.4
42.5°	1035.2	1053.2	1087.6	1088.6	1071.3
45°	978.5	995.9	1027.9	1028.7	1008.5
47.5°	921.0	938.5	967.1	963.9	944.8
50°	862.8	879.4	904.5	898.0	880.8
52.5°	802.5	818.7	842.3	831.8	815.6
55°	741.9	756.9	776.6	765.4	752.8
57.5°	680.8	696.0	711.1	699.7	688.8
60°	619.2	632.5	644.9	633.3	625.0
62.5°	556.6	568.0	578.7	567.6	559.8
65°	493.3	503.3	512.1	501.9	493.6
67.5°	430.3	438.8	447.0	436.4	427.7
70°	367.3	374.6	382.1	371.2	363.2
72.5°	305.2	311.6	318.3	307.7	300.8
75°	244.8	250.4	255.8	246.5	241.0
77.5°	187.1	191.8	195.6	189.6	184.3
80°	133.4	137.0	139.2	136.8	131.9
82.5°	85.8	88.3	89.5	89.4	86.1
85°	46.6	47.5	49.7	50.2	48.5
87.5°	18.0	19.2	19.7	21.3	19.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)