

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: P490052

Luminaire Tested: **CLP-12-2-INS-A19156-LD4-2HI-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: P490052  
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-90  
Description: 1X2 CLP LED LUMINAIRE WITH A19156 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

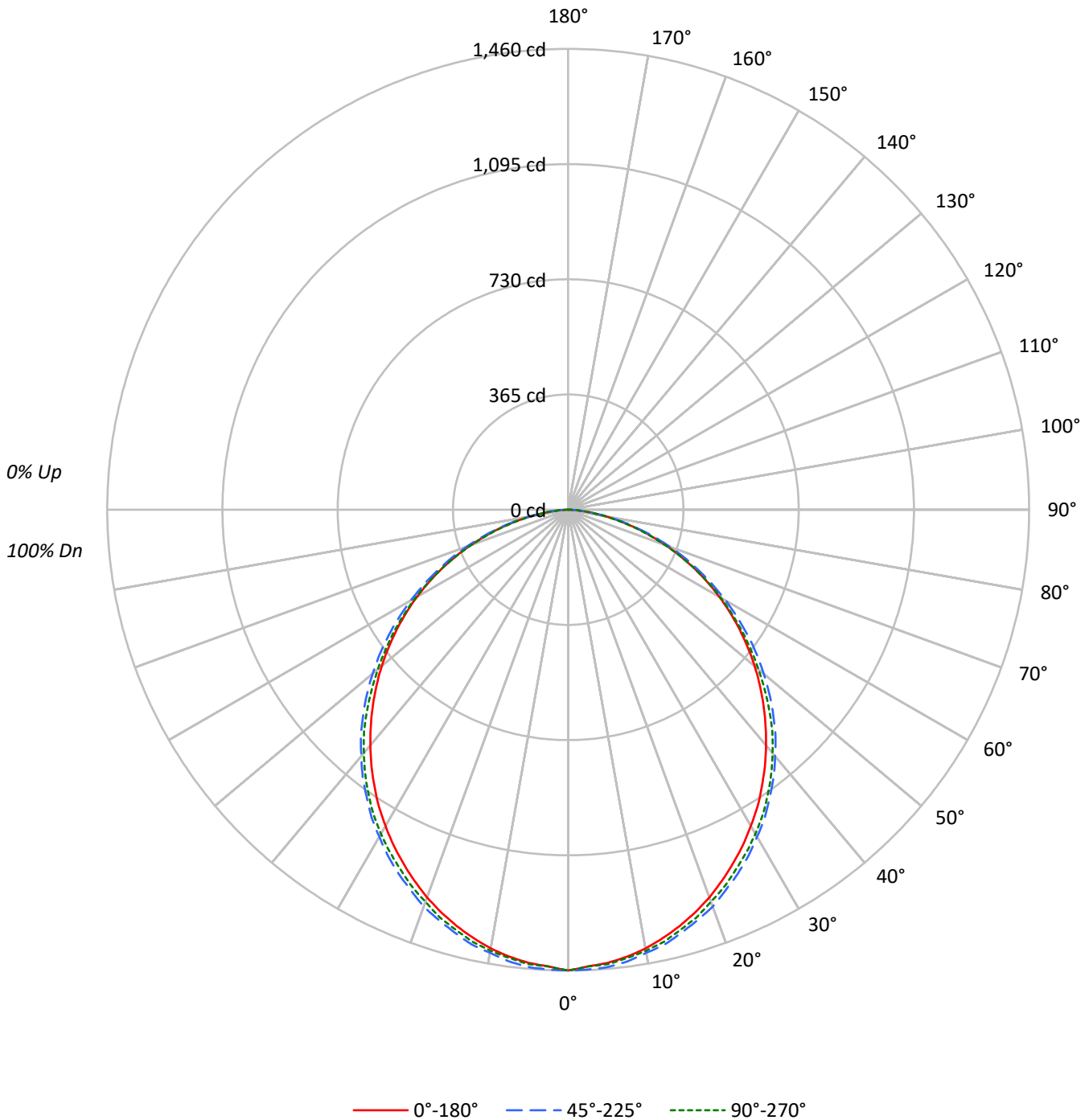
Lumens per Lamp: N/A  
Luminaire Lumens: 3838.0 lumens  
Efficiency: N/A  
Efficacy: 88.8 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 43.2  
Input Voltage (V): NR  
Input Current (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°	7857	7857	7857
5°	7784	7857	7809
10°	7713	7791	7754
15°	7606	7729	7675
20°	7486	7664	7572
25°	7340	7554	7467
30°	7192	7436	7368
35°	7030	7309	7241
40°	6847	7163	7072
45°	6655	6991	6859
50°	6455	6767	6590
55°	6221	6512	6312
60°	5956	6203	6012
65°	5613	5829	5617
70°	5164	5374	5108
75°	4548	4754	4479
80°	3694	3856	3654
85°	2575	2742	2674



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.5	3.6
10°-20°	389.6	10.2
20°-30°	581.1	15.1
30°-40°	688.6	17.9
40°-50°	696.7	18.2
50°-60°	608.5	15.9
60°-70°	444.7	11.6
70°-80°	236.6	6.2
80°-90°	54.7	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°	1108.2	28.9
0°-40°	1796.8	46.8
0°-60°	3102.0	80.8
0°-90°	3838.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3838.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1460	1460	1460	1460	1460	
5°	1441	1444	1454	1458	1445	137
15°	1365	1374	1387	1396	1377	385
25°	1236	1251	1272	1277	1257	569
35°	1070	1087	1112	1120	1102	669
45°	874	890	918	919	901	675
55°	663	676	694	684	673	593
65°	441	450	458	448	441	436
75°	219	224	229	220	215	233
85°	42	42	44	45	43	53
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1459.8	1459.8	1459.8	1459.8	1459.8
2.5°	1448.4	1453.1	1458.0	1460.1	1448.3
5°	1440.8	1443.6	1454.4	1457.7	1445.4
7.5°	1428.4	1432.5	1443.0	1444.5	1432.6
10°	1411.3	1418.6	1425.6	1433.2	1418.8
12.5°	1389.6	1399.5	1411.3	1412.7	1401.7
15°	1365.1	1374.2	1387.1	1395.5	1377.4
17.5°	1337.7	1346.5	1363.3	1364.8	1353.8
20°	1307.1	1318.1	1338.2	1341.7	1322.0
22.5°	1272.5	1287.2	1303.9	1307.3	1292.8
25°	1236.1	1251.3	1272.0	1276.7	1257.4
27.5°	1198.1	1212.7	1236.0	1239.3	1223.0
30°	1157.3	1171.0	1196.6	1202.2	1185.6
32.5°	1115.9	1129.6	1157.9	1162.6	1146.5
35°	1070.0	1086.7	1112.4	1120.2	1102.1
37.5°	1023.2	1039.4	1068.6	1075.6	1056.2
40°	974.6	990.8	1019.5	1025.3	1006.6
42.5°	925.1	941.2	971.9	972.8	957.3
45°	874.4	889.9	918.5	919.3	901.2
47.5°	823.0	838.7	864.2	861.3	844.3
50°	771.0	785.9	808.2	802.5	787.1
52.5°	717.1	731.6	752.7	743.3	728.9
55°	663.0	676.4	694.0	684.0	672.7
57.5°	608.4	621.9	635.5	625.3	615.5
60°	553.3	565.2	576.3	566.0	558.5
62.5°	497.4	507.6	517.1	507.2	500.3
65°	440.8	449.8	457.7	448.5	441.1
67.5°	384.5	392.1	399.4	390.0	382.2
70°	328.2	334.8	341.5	331.7	324.6
72.5°	272.7	278.5	284.4	275.0	268.8
75°	218.7	223.7	228.6	220.2	215.4
77.5°	167.2	171.4	174.8	169.4	164.7
80°	119.2	122.4	124.4	122.3	117.9
82.5°	76.7	78.9	80.0	79.9	77.0
85°	41.7	42.4	44.4	44.9	43.3
87.5°	16.1	17.2	17.6	19.0	17.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)