

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: P490048

Luminaire Tested: **CLP-12-2-INS-A19156-LD4-2HI-35-120-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: P490048  
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-90  
Description: 1X2 CLP LED LUMINAIRE WITH A19156 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

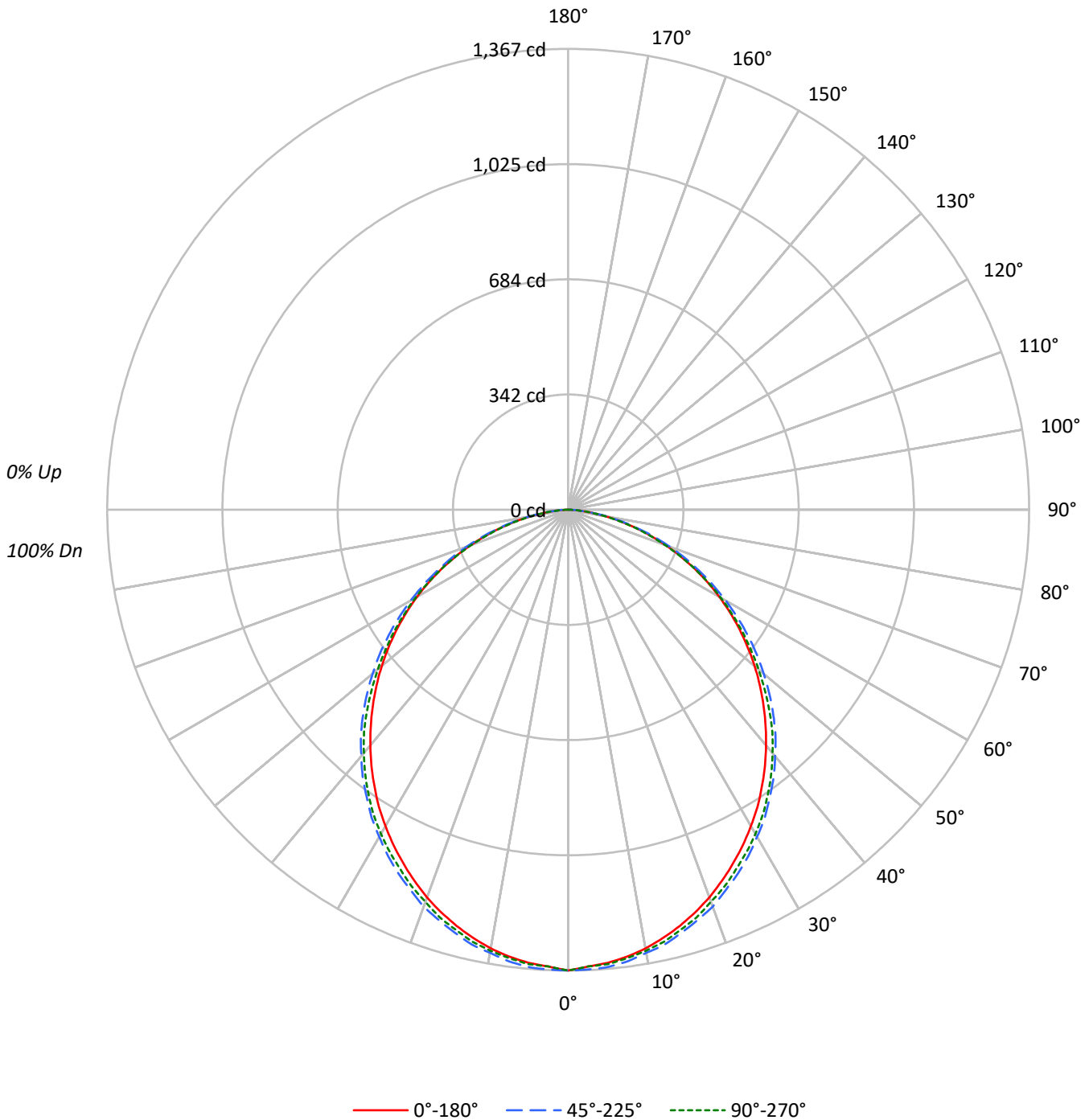
Lumens per Lamp: N/A  
Luminaire Lumens: 3593.8 lumens  
Efficiency: N/A  
Efficacy: 83.2 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

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°	7357	7357	7357
5°	7289	7357	7312
10°	7222	7295	7260
15°	7122	7237	7187
20°	7010	7176	7090
25°	6874	7073	6992
30°	6735	6963	6899
35°	6583	6844	6780
40°	6412	6707	6622
45°	6232	6546	6422
50°	6044	6337	6171
55°	5825	6098	5910
60°	5577	5808	5630
65°	5256	5457	5259
70°	4836	5031	4782
75°	4259	4452	4194
80°	3462	3611	3422
85°	2408	2569	2507



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	128.7	3.6
10°-20°	364.8	10.2
20°-30°	544.1	15.1
30°-40°	644.8	17.9
40°-50°	652.4	18.2
50°-60°	569.8	15.9
60°-70°	416.4	11.6
70°-80°	221.5	6.2
80°-90°	51.2	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°	1037.7	28.9
0°-40°	1682.5	46.8
0°-60°	2904.7	80.8
0°-90°	3593.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3593.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1367	1367	1367	1367	1367	
5°	1349	1352	1362	1365	1353	128
15°	1278	1287	1299	1307	1290	360
25°	1158	1172	1191	1196	1177	533
35°	1002	1018	1042	1049	1032	627
45°	819	833	860	861	844	632
55°	621	633	650	640	630	555
65°	413	421	428	420	413	408
75°	205	210	214	206	202	218
85°	39	40	42	42	41	49
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1367.0	1367.0	1367.0	1367.0	1367.0
2.5°	1356.3	1360.7	1365.2	1367.2	1356.1
5°	1349.2	1351.7	1361.8	1365.0	1353.4
7.5°	1337.5	1341.3	1351.1	1352.6	1341.5
10°	1321.5	1328.4	1334.9	1342.0	1328.5
12.5°	1301.2	1310.4	1321.5	1322.8	1312.5
15°	1278.2	1286.8	1298.9	1306.7	1289.8
17.5°	1252.6	1260.9	1276.5	1277.9	1267.7
20°	1224.0	1234.2	1253.0	1256.3	1237.9
22.5°	1191.5	1205.3	1221.0	1224.1	1210.6
25°	1157.5	1171.7	1191.1	1195.5	1177.4
27.5°	1121.8	1135.5	1157.3	1160.4	1145.2
30°	1083.7	1096.5	1120.4	1125.7	1110.2
32.5°	1044.9	1057.8	1084.2	1088.7	1073.6
35°	1001.9	1017.6	1041.7	1048.9	1032.0
37.5°	958.1	973.3	1000.6	1007.2	989.0
40°	912.6	927.7	954.6	960.1	942.5
42.5°	866.2	881.3	910.1	910.9	896.4
45°	818.8	833.3	860.1	860.8	843.8
47.5°	770.6	785.3	809.2	806.5	790.6
50°	721.9	735.9	756.8	751.4	737.0
52.5°	671.5	685.0	704.8	696.0	682.5
55°	620.8	633.3	649.9	640.5	629.9
57.5°	569.7	582.4	595.0	585.5	576.4
60°	518.1	529.2	539.6	529.9	523.0
62.5°	465.7	475.3	484.2	475.0	468.4
65°	412.7	421.1	428.5	420.0	413.0
67.5°	360.0	367.2	374.0	365.2	357.9
70°	307.3	313.5	319.7	310.6	303.9
72.5°	255.4	260.8	266.3	257.5	251.7
75°	204.8	209.5	214.1	206.2	201.7
77.5°	156.5	160.5	163.6	158.7	154.2
80°	111.7	114.6	116.5	114.5	110.4
82.5°	71.8	73.9	74.9	74.8	72.1
85°	39.0	39.7	41.6	42.0	40.6
87.5°	15.1	16.1	16.5	17.8	16.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)