

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: P490076

Luminaire Tested: **CLP-12-2-INS-A19156-LD4-2STD-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: P490076  
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-LD4-2STD-50-120-EDD-90  
Description: 1X2 CLP LED LUMINAIRE WITH A19156 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

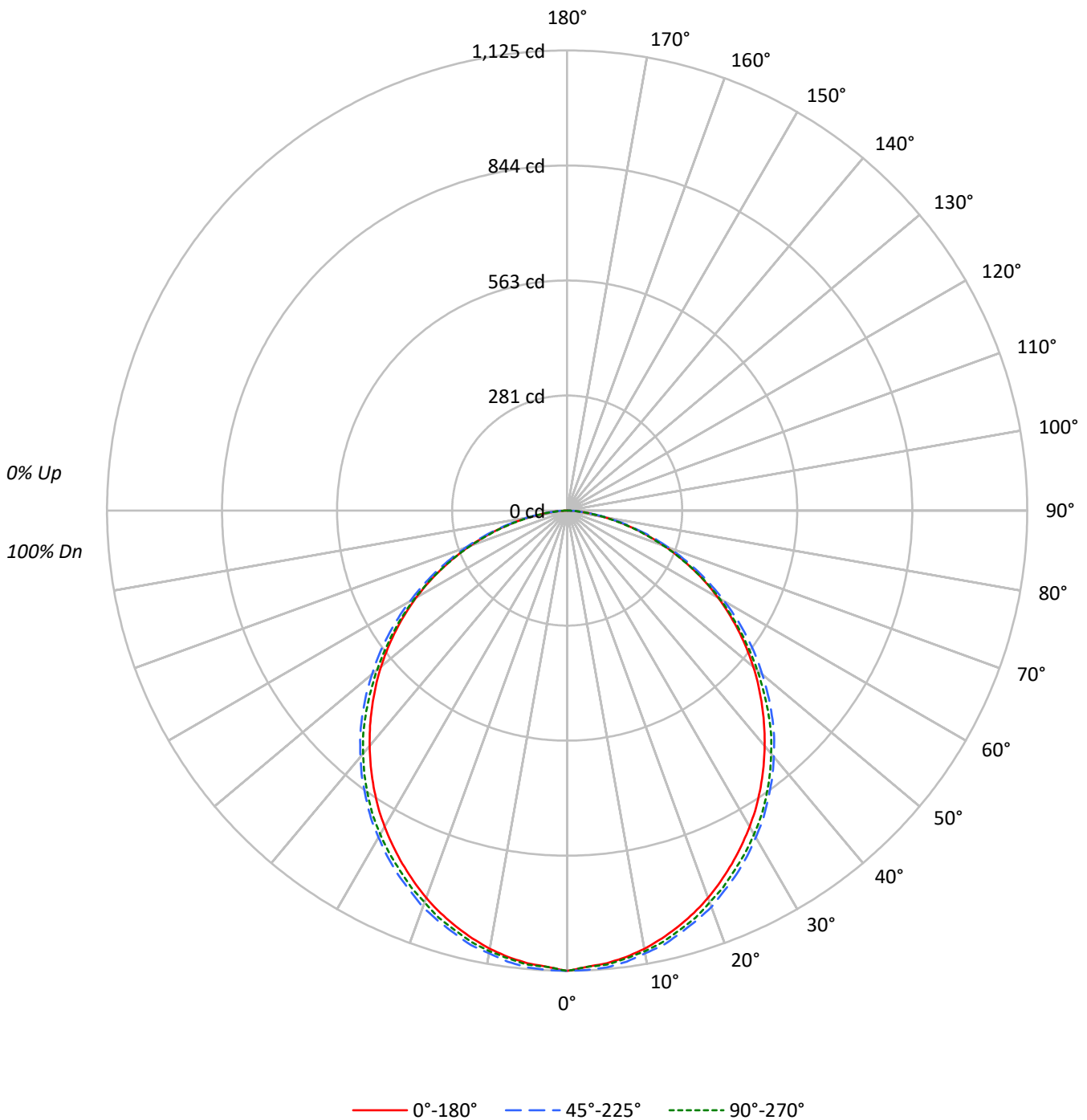
Lumens per Lamp: N/A  
Luminaire Lumens: 2958.5 lumens  
Efficiency: N/A  
Efficacy: 88.8 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 33.3  
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°	6056	6056	6056
5°	6001	6057	6019
10°	5945	6005	5977
15°	5863	5958	5916
20°	5771	5908	5837
25°	5658	5823	5756
30°	5544	5732	5679
35°	5419	5634	5582
40°	5278	5521	5451
45°	5130	5389	5288
50°	4976	5216	5080
55°	4796	5020	4866
60°	4591	4781	4634
65°	4327	4493	4330
70°	3981	4142	3937
75°	3506	3664	3452
80°	2848	2972	2817
85°	1982	2112	2062



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.0	3.6
10°-20°	300.3	10.2
20°-30°	447.9	15.1
30°-40°	530.8	17.9
40°-50°	537.1	18.2
50°-60°	469.1	15.9
60°-70°	342.8	11.6
70°-80°	182.4	6.2
80°-90°	42.2	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°	854.2	28.9
0°-40°	1385.0	46.8
0°-60°	2391.2	80.8
0°-90°	2958.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2958.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1125	1125	1125	1125	1125	
5°	1111	1113	1121	1124	1114	105
15°	1052	1059	1069	1076	1062	297
25°	953	965	980	984	969	439
35°	825	838	858	864	850	516
45°	674	686	708	709	695	520
55°	511	521	535	527	519	457
65°	340	347	353	346	340	336
75°	169	172	176	170	166	179
85°	32	33	34	35	33	41
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1125.3	1125.3	1125.3	1125.3	1125.3
2.5°	1116.5	1120.1	1123.9	1125.5	1116.4
5°	1110.7	1112.8	1121.1	1123.7	1114.2
7.5°	1101.0	1104.2	1112.3	1113.5	1104.3
10°	1087.9	1093.5	1098.9	1104.8	1093.7
12.5°	1071.1	1078.8	1087.9	1089.0	1080.5
15°	1052.3	1059.3	1069.3	1075.7	1061.8
17.5°	1031.2	1038.0	1050.9	1052.0	1043.6
20°	1007.6	1016.0	1031.5	1034.2	1019.1
22.5°	980.9	992.2	1005.1	1007.7	996.6
25°	952.8	964.6	980.5	984.1	969.3
27.5°	923.5	934.8	952.7	955.3	942.8
30°	892.1	902.7	922.4	926.7	913.9
32.5°	860.2	870.8	892.6	896.2	883.8
35°	824.8	837.7	857.5	863.5	849.6
37.5°	788.7	801.2	823.8	829.1	814.1
40°	751.3	763.7	785.9	790.3	775.9
42.5°	713.1	725.5	749.2	749.9	737.9
45°	674.0	686.0	708.0	708.6	694.7
47.5°	634.4	646.5	666.2	664.0	650.8
50°	594.3	605.8	623.0	618.6	606.7
52.5°	552.8	563.9	580.2	573.0	561.8
55°	511.1	521.4	535.0	527.2	518.6
57.5°	469.0	479.4	489.8	482.0	474.5
60°	426.5	435.7	444.2	436.3	430.5
62.5°	383.4	391.2	398.6	391.0	385.6
65°	339.8	346.7	352.8	345.8	340.0
67.5°	296.4	302.3	307.9	300.6	294.6
70°	253.0	258.1	263.2	255.7	250.2
72.5°	210.2	214.7	219.2	212.0	207.2
75°	168.6	172.5	176.2	169.8	166.0
77.5°	128.9	132.1	134.7	130.6	127.0
80°	91.9	94.4	95.9	94.3	90.9
82.5°	59.1	60.8	61.7	61.6	59.3
85°	32.1	32.7	34.2	34.6	33.4
87.5°	12.4	13.2	13.6	14.7	13.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)