

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: P490029

Luminaire Tested: **CLP-12-2-INS-A19156-LD4-1LO-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: P490029  
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-LD4-1LO-50-120-EDD  
Description: 1X2 CLP LED LUMINAIRE WITH A19156 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

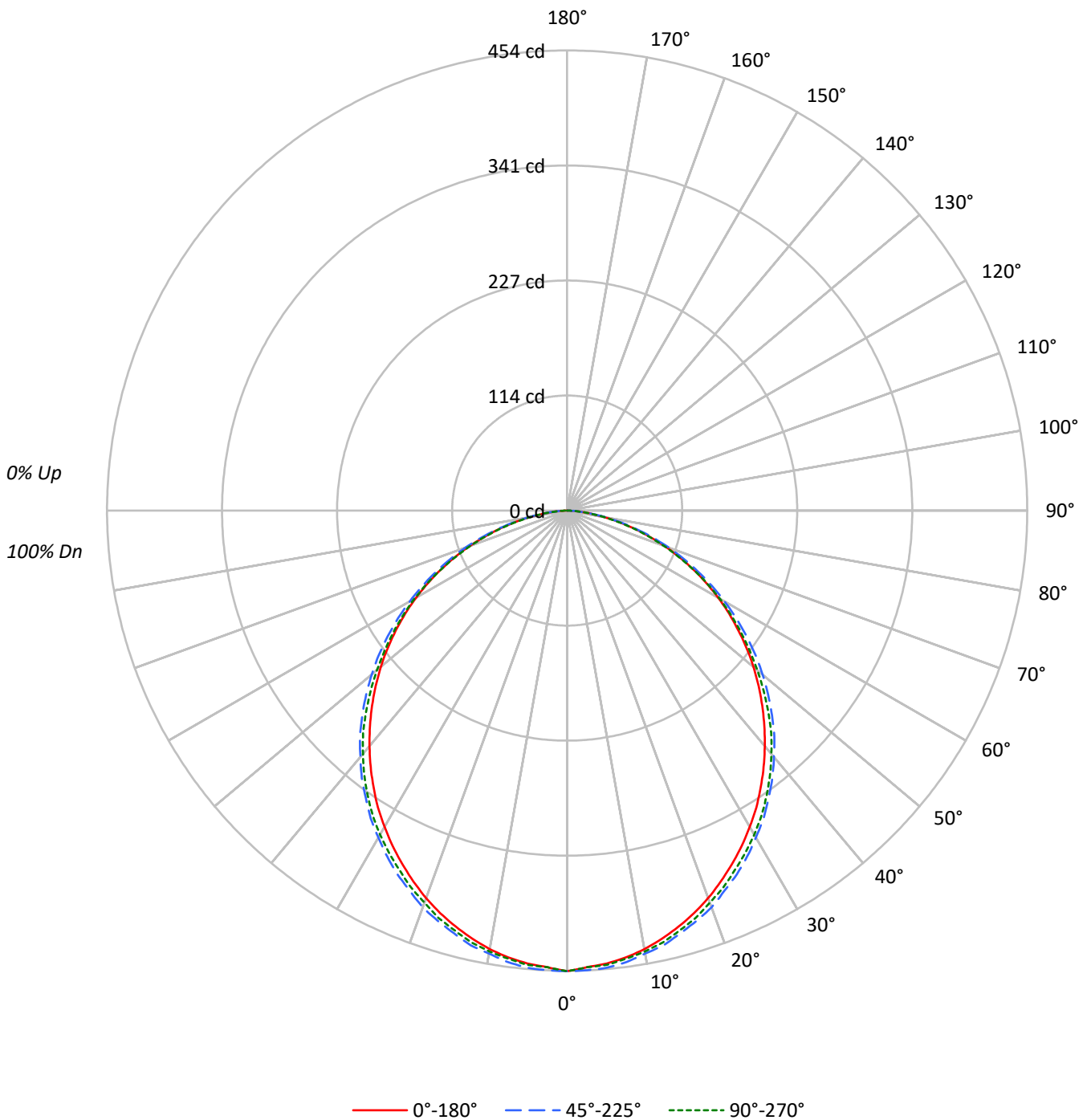
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1194.8 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): 11.7  
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	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°	2446	2446	2446
5°	2423	2446	2431
10°	2401	2425	2414
15°	2368	2406	2389
20°	2330	2386	2357
25°	2285	2352	2324
30°	2239	2315	2294
35°	2189	2275	2254
40°	2132	2230	2202
45°	2072	2176	2135
50°	2009	2107	2051
55°	1937	2028	1965
60°	1855	1931	1872
65°	1747	1815	1748
70°	1608	1673	1589
75°	1416	1481	1393
80°	1150	1199	1137
85°	803	852	834



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.8	3.6
10°-20°	121.3	10.2
20°-30°	180.9	15.1
30°-40°	214.4	17.9
40°-50°	216.9	18.2
50°-60°	189.4	15.9
60°-70°	138.4	11.6
70°-80°	73.7	6.2
80°-90°	17.0	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°	345.0	28.9
0°-40°	559.4	46.8
0°-60°	965.7	80.8
0°-90°	1194.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1194.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	454	454	454	454	454	
5°	448	449	453	454	450	43
15°	425	428	432	434	429	120
25°	385	390	396	398	391	177
35°	333	338	346	349	343	208
45°	272	277	286	286	280	210
55°	206	211	216	213	209	185
65°	137	140	142	140	137	136
75°	68	70	71	69	67	72
85°	13	13	14	14	14	16
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	454.5	454.5	454.5	454.5	454.5
2.5°	450.9	452.4	453.9	454.6	450.9
5°	448.5	449.4	452.8	453.8	450.0
7.5°	444.7	445.9	449.2	449.7	446.0
10°	439.4	441.6	443.8	446.2	441.7
12.5°	432.6	435.7	439.4	439.8	436.4
15°	425.0	427.8	431.8	434.4	428.8
17.5°	416.4	419.2	424.4	424.9	421.5
20°	406.9	410.3	416.6	417.7	411.6
22.5°	396.1	400.7	405.9	407.0	402.5
25°	384.8	389.5	396.0	397.5	391.4
27.5°	373.0	377.5	384.8	385.8	380.7
30°	360.3	364.5	372.5	374.2	369.1
32.5°	347.4	351.7	360.5	361.9	356.9
35°	333.1	338.3	346.3	348.7	343.1
37.5°	318.5	323.6	332.7	334.9	328.8
40°	303.4	308.4	317.4	319.2	313.4
42.5°	288.0	293.0	302.6	302.8	298.0
45°	272.2	277.0	285.9	286.2	280.5
47.5°	256.2	261.1	269.0	268.1	262.8
50°	240.0	244.7	251.6	249.8	245.0
52.5°	223.3	227.8	234.3	231.4	226.9
55°	206.4	210.6	216.1	212.9	209.4
57.5°	189.4	193.6	197.8	194.7	191.6
60°	172.3	176.0	179.4	176.2	173.9
62.5°	154.8	158.0	161.0	157.9	155.7
65°	137.2	140.0	142.5	139.6	137.3
67.5°	119.7	122.1	124.3	121.4	119.0
70°	102.2	104.2	106.3	103.3	101.0
72.5°	84.9	86.7	88.5	85.6	83.7
75°	68.1	69.7	71.2	68.6	67.0
77.5°	52.0	53.4	54.4	52.7	51.3
80°	37.1	38.1	38.7	38.1	36.7
82.5°	23.9	24.6	24.9	24.9	24.0
85°	13.0	13.2	13.8	14.0	13.5
87.5°	5.0	5.4	5.5	5.9	5.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)