

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: P490041

Luminaire Tested: **CLP-12-2-INS-A19156-LD4-1STD-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: P490041  
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-LD4-1STD-50-120-EDD  
Description: 1X2 CLP LED LUMINAIRE WITH A19156 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

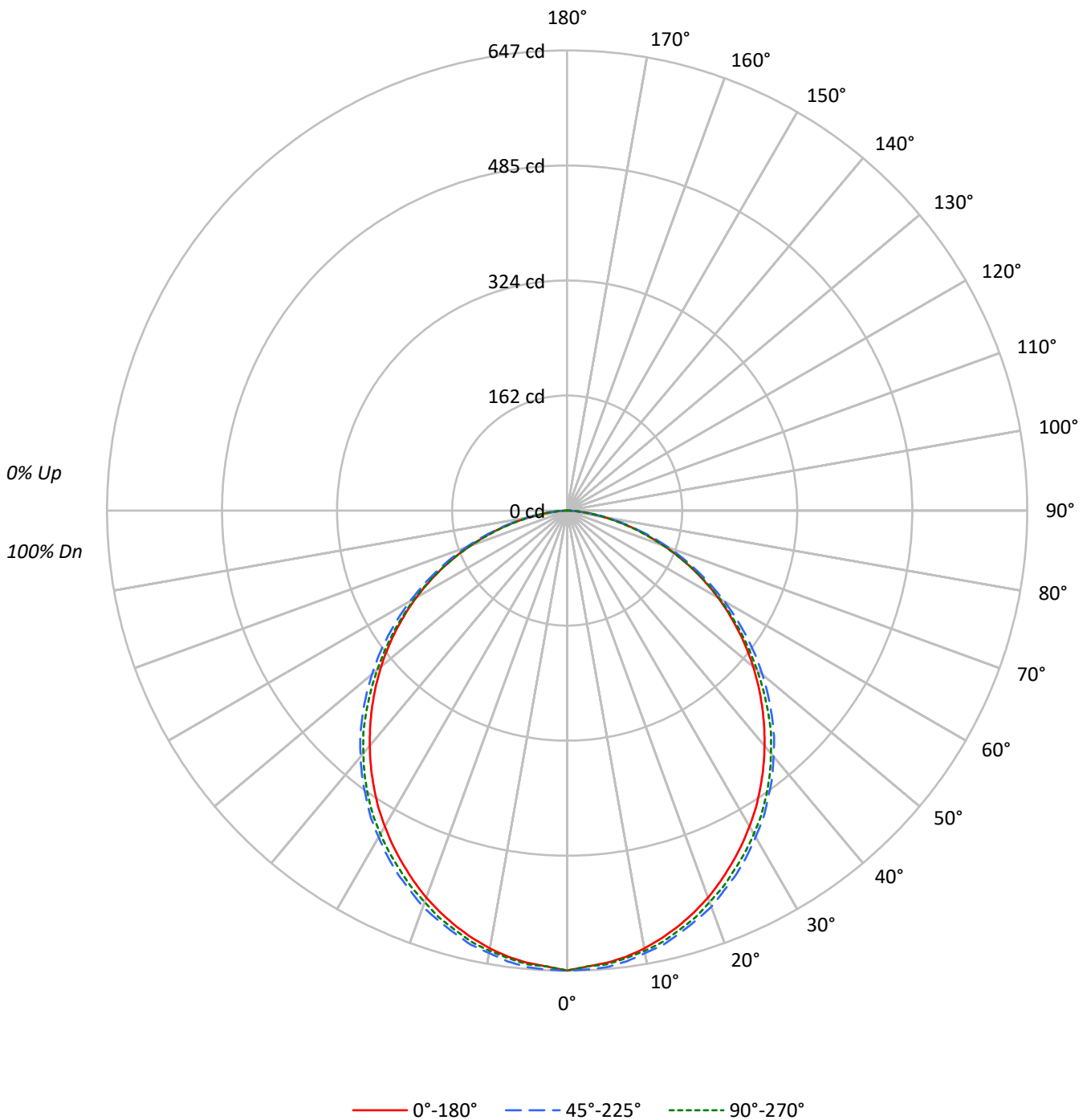
Lumens per Lamp: N/A  
Luminaire Lumens: 1700.3 lumens  
Efficiency: N/A  
Efficacy: 102.4 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 16.6  
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	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°	3481	3481	3481
5°	3448	3481	3459
10°	3417	3452	3435
15°	3370	3424	3400
20°	3317	3395	3355
25°	3252	3346	3308
30°	3186	3294	3264
35°	3114	3238	3208
40°	3034	3173	3133
45°	2949	3097	3038
50°	2860	2998	2920
55°	2756	2885	2796
60°	2638	2748	2663
65°	2487	2583	2488
70°	2288	2381	2263
75°	2015	2106	1984
80°	1636	1708	1618
85°	1142	1216	1186



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.9	3.6
10°-20°	172.6	10.2
20°-30°	257.4	15.1
30°-40°	305.1	17.9
40°-50°	308.7	18.2
50°-60°	269.6	15.9
60°-70°	197.0	11.6
70°-80°	104.8	6.2
80°-90°	24.2	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°	490.9	28.9
0°-40°	796.0	46.8
0°-60°	1374.2	80.8
0°-90°	1700.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1700.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	647	647	647	647	647	
5°	638	640	644	646	640	61
15°	605	609	614	618	610	170
25°	548	554	564	566	557	252
35°	474	481	493	496	488	296
45°	387	394	407	407	399	299
55°	294	300	308	303	298	263
65°	195	199	203	199	195	193
75°	97	99	101	98	95	103
85°	18	19	20	20	19	23
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	646.7	646.7	646.7	646.7	646.7
2.5°	641.7	643.8	645.9	646.9	641.6
5°	638.3	639.5	644.3	645.8	640.3
7.5°	632.8	634.6	639.3	639.9	634.7
10°	625.2	628.5	631.6	634.9	628.5
12.5°	615.6	620.0	625.2	625.8	621.0
15°	604.8	608.8	614.5	618.2	610.2
17.5°	592.6	596.5	603.9	604.6	599.8
20°	579.1	583.9	592.8	594.4	585.7
22.5°	563.7	570.3	577.7	579.1	572.7
25°	547.6	554.4	563.5	565.6	557.0
27.5°	530.8	537.2	547.5	549.0	541.8
30°	512.7	518.8	530.1	532.6	525.2
32.5°	494.4	500.4	513.0	515.1	507.9
35°	474.0	481.4	492.8	496.3	488.3
37.5°	453.3	460.5	473.4	476.5	467.9
40°	431.8	438.9	451.7	454.2	445.9
42.5°	409.8	417.0	430.6	431.0	424.1
45°	387.4	394.3	406.9	407.3	399.2
47.5°	364.6	371.5	382.9	381.6	374.0
50°	341.6	348.2	358.1	355.5	348.7
52.5°	317.7	324.1	333.5	329.3	322.9
55°	293.7	299.6	307.5	303.0	298.0
57.5°	269.5	275.5	281.5	277.0	272.7
60°	245.1	250.4	255.3	250.7	247.4
62.5°	220.3	224.9	229.1	224.7	221.6
65°	195.3	199.2	202.8	198.7	195.4
67.5°	170.3	173.7	176.9	172.8	169.3
70°	145.4	148.3	151.3	147.0	143.8
72.5°	120.8	123.4	126.0	121.8	119.1
75°	96.9	99.1	101.3	97.6	95.4
77.5°	74.1	75.9	77.4	75.1	73.0
80°	52.8	54.2	55.1	54.2	52.2
82.5°	34.0	35.0	35.4	35.4	34.1
85°	18.5	18.8	19.7	19.9	19.2
87.5°	7.1	7.6	7.8	8.4	7.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)