

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: P490034

Luminaire Tested: **CLP-12-2-INS-A19156-LD4-1STD-30-120-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: P490034  
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-30-120-EDD-90  
Description: 1X2 CLP LED LUMINAIRE WITH A19156 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

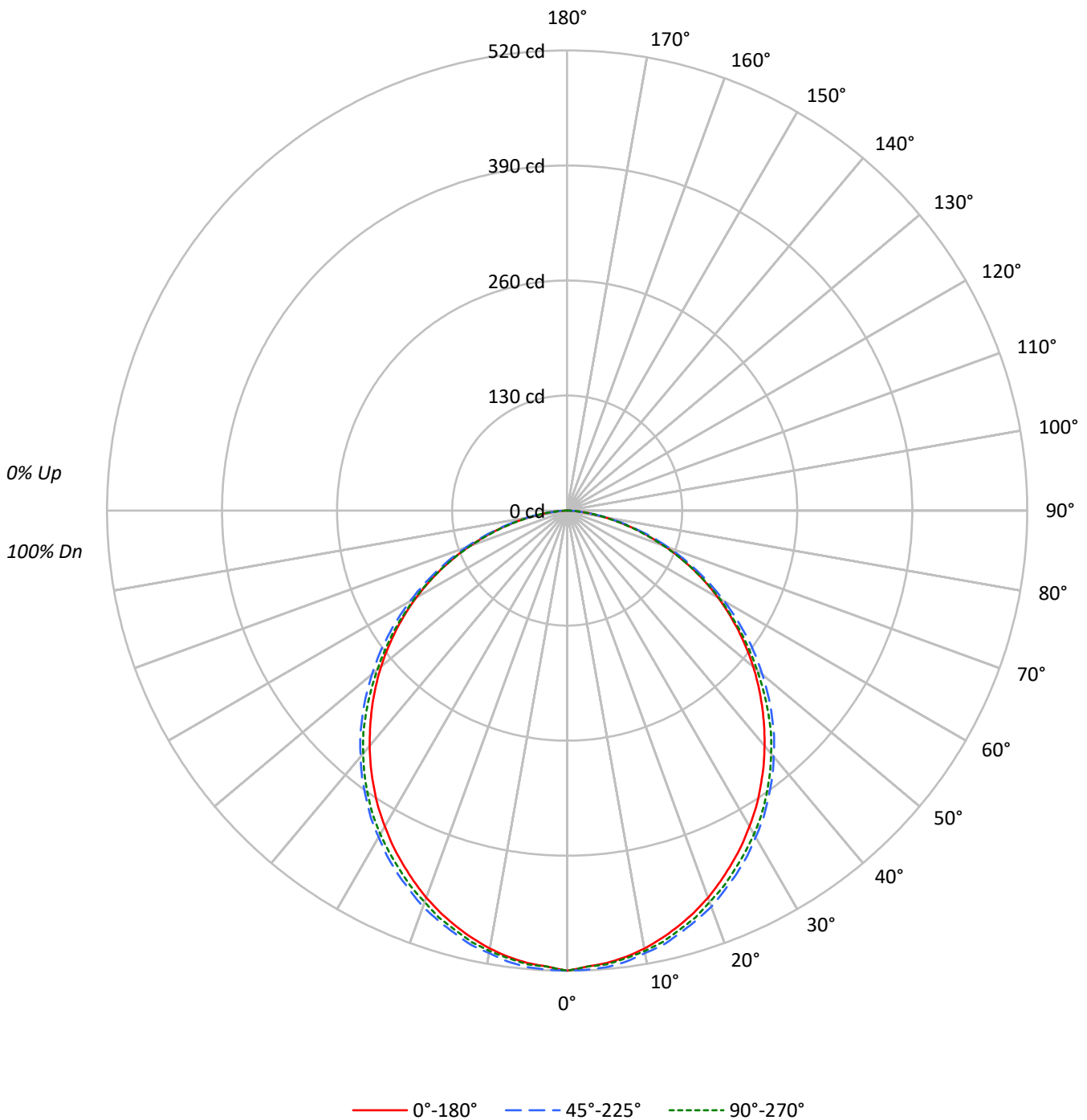
Lumens per Lamp: N/A  
Luminaire Lumens: 1366.8 lumens  
Efficiency: N/A  
Efficacy: 82.3 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 16.6  
Input Voltage (V): NR  
Input Current (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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85				85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71				71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60				60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51				51
5	77	64	55	48	75	63	54	48	61	53	48	59	52	47	57	51	47	45				45
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39				39
7	66	52	44	38	64	51	43	37	50	43	37	49	42	37	47	41	37	35				35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31				31
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28				28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25				25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2798	2798	2798
5°	2772	2798	2781
10°	2747	2775	2761
15°	2708	2752	2733
20°	2666	2729	2696
25°	2614	2690	2659
30°	2561	2648	2624
35°	2504	2603	2579
40°	2439	2551	2519
45°	2370	2490	2442
50°	2299	2410	2347
55°	2215	2320	2248
60°	2122	2209	2141
65°	1999	2076	2001
70°	1840	1913	1819
75°	1620	1693	1595
80°	1317	1373	1302
85°	914	976	951



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.0	3.6
10°-20°	138.7	10.2
20°-30°	206.9	15.1
30°-40°	245.2	17.9
40°-50°	248.1	18.2
50°-60°	216.7	15.9
60°-70°	158.4	11.6
70°-80°	84.2	6.2
80°-90°	19.5	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°	394.7	28.9
0°-40°	639.9	46.8
0°-60°	1104.7	80.8
0°-90°	1366.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1366.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	520	520	520	520	520	
5°	513	514	518	519	515	49
15°	486	489	494	497	490	137
25°	440	446	453	455	448	203
35°	381	387	396	399	392	238
45°	311	317	327	327	321	240
55°	236	241	247	244	240	211
65°	157	160	163	160	157	155
75°	78	80	81	78	77	83
85°	15	15	16	16	15	19
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	519.9	519.9	519.9	519.9	519.9
2.5°	515.8	517.5	519.2	520.0	515.8
5°	513.1	514.1	517.9	519.1	514.7
7.5°	508.7	510.1	513.9	514.4	510.2
10°	502.6	505.2	507.7	510.4	505.3
12.5°	494.9	498.4	502.6	503.1	499.2
15°	486.1	489.4	494.0	497.0	490.5
17.5°	476.4	479.5	485.5	486.0	482.1
20°	465.5	469.4	476.5	477.8	470.8
22.5°	453.1	458.4	464.4	465.6	460.4
25°	440.2	445.6	453.0	454.7	447.8
27.5°	426.7	431.9	440.2	441.3	435.5
30°	412.1	417.0	426.1	428.1	422.2
32.5°	397.4	402.3	412.4	414.0	408.3
35°	381.1	387.0	396.2	398.9	392.5
37.5°	364.4	370.2	380.6	383.1	376.1
40°	347.1	352.8	363.1	365.1	358.5
42.5°	329.4	335.2	346.1	346.4	340.9
45°	311.4	316.9	327.1	327.4	320.9
47.5°	293.1	298.7	307.8	306.7	300.7
50°	274.6	279.9	287.8	285.8	280.3
52.5°	255.4	260.5	268.1	264.7	259.6
55°	236.1	240.9	247.2	243.6	239.6
57.5°	216.7	221.5	226.3	222.7	219.2
60°	197.1	201.3	205.2	201.6	198.9
62.5°	177.1	180.8	184.2	180.6	178.2
65°	157.0	160.2	163.0	159.7	157.1
67.5°	136.9	139.6	142.2	138.9	136.1
70°	116.9	119.2	121.6	118.1	115.6
72.5°	97.1	99.2	101.3	97.9	95.7
75°	77.9	79.7	81.4	78.4	76.7
77.5°	59.5	61.0	62.2	60.3	58.7
80°	42.5	43.6	44.3	43.5	42.0
82.5°	27.3	28.1	28.5	28.4	27.4
85°	14.8	15.1	15.8	16.0	15.4
87.5°	5.7	6.1	6.3	6.8	6.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)