

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: P490058

Luminaire Tested: **CLP-12-2-INS-A19156-LD4-2LO-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: P490058  
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-LD4-2LO-30-120-EDD-90  
Description: 1X2 CLP LED LUMINAIRE WITH A19156 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

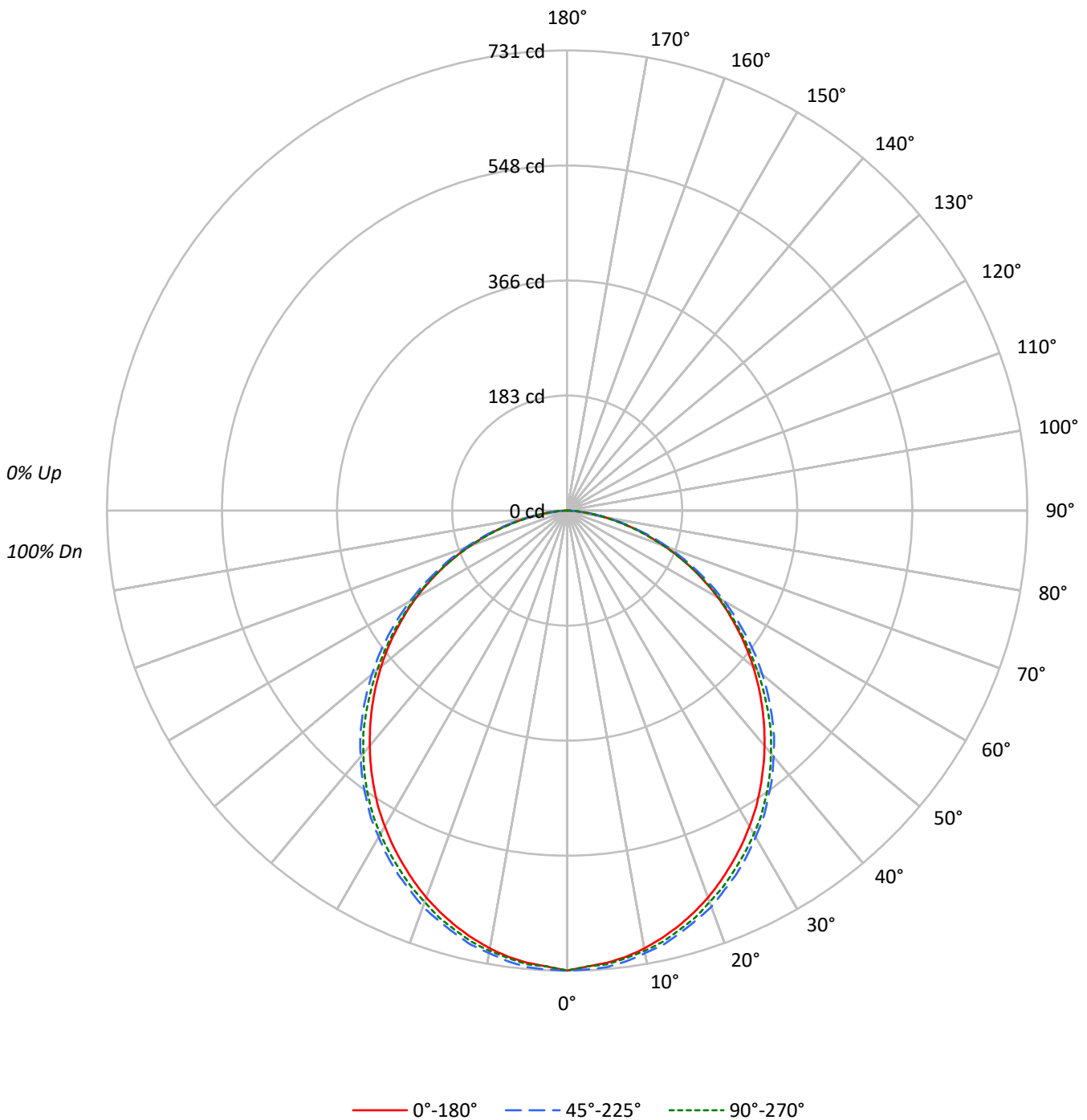
Lumens per Lamp: N/A  
Luminaire Lumens: 1921.0 lumens  
Efficiency: N/A  
Efficacy: 82.1 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 23.4  
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	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°	3933	3933	3933
5°	3896	3932	3908
10°	3860	3900	3881
15°	3807	3869	3841
20°	3747	3836	3790
25°	3674	3781	3738
30°	3600	3722	3688
35°	3519	3658	3624
40°	3427	3585	3540
45°	3331	3499	3433
50°	3231	3387	3299
55°	3113	3260	3159
60°	2982	3105	3009
65°	2809	2918	2812
70°	2585	2689	2557
75°	2277	2379	2242
80°	1850	1931	1829
85°	1291	1371	1340



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.8	3.6
10°-20°	195.0	10.2
20°-30°	290.8	15.1
30°-40°	344.7	17.9
40°-50°	348.7	18.2
50°-60°	304.6	15.9
60°-70°	222.6	11.6
70°-80°	118.4	6.2
80°-90°	27.4	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°	554.7	28.9
0°-40°	899.3	46.8
0°-60°	1552.6	80.8
0°-90°	1921.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1921.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	731	731	731	731	731	
5°	721	722	728	730	723	68
15°	683	688	694	698	689	193
25°	619	626	637	639	629	285
35°	536	544	557	561	552	335
45°	438	445	460	460	451	338
55°	332	338	347	342	337	297
65°	221	225	229	224	221	218
75°	110	112	114	110	108	116
85°	21	21	22	22	22	26
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	730.7	730.7	730.7	730.7	730.7
2.5°	725.0	727.3	729.8	730.8	724.9
5°	721.2	722.5	727.9	729.6	723.4
7.5°	714.9	717.0	722.2	723.0	717.1
10°	706.4	710.0	713.6	717.4	710.1
12.5°	695.5	700.5	706.4	707.1	701.6
15°	683.3	687.8	694.3	698.5	689.4
17.5°	669.5	674.0	682.3	683.1	677.6
20°	654.2	659.7	669.8	671.5	661.7
22.5°	636.9	644.3	652.6	654.3	647.1
25°	618.7	626.3	636.7	639.0	629.4
27.5°	599.7	607.0	618.6	620.3	612.1
30°	579.3	586.1	598.9	601.7	593.4
32.5°	558.6	565.4	579.6	581.9	573.9
35°	535.6	543.9	556.8	560.7	551.6
37.5°	512.1	520.3	534.9	538.4	528.6
40°	487.8	495.9	510.3	513.2	503.8
42.5°	463.0	471.1	486.5	486.9	479.2
45°	437.7	445.4	459.7	460.1	451.1
47.5°	411.9	419.8	432.6	431.1	422.6
50°	385.9	393.4	404.5	401.7	394.0
52.5°	358.9	366.2	376.8	372.0	364.8
55°	331.8	338.5	347.4	342.3	336.7
57.5°	304.5	311.3	318.1	313.0	308.1
60°	277.0	282.9	288.5	283.3	279.5
62.5°	248.9	254.0	258.8	253.9	250.4
65°	220.6	225.1	229.1	224.5	220.8
67.5°	192.5	196.3	199.9	195.2	191.3
70°	164.3	167.6	170.9	166.0	162.5
72.5°	136.5	139.4	142.4	137.6	134.5
75°	109.5	112.0	114.4	110.2	107.8
77.5°	83.7	85.8	87.5	84.8	82.4
80°	59.7	61.3	62.3	61.2	59.0
82.5°	38.4	39.5	40.0	40.0	38.5
85°	20.9	21.2	22.2	22.5	21.7
87.5°	8.1	8.6	8.8	9.5	8.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)