

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: P490059

Luminaire Tested: **CLP-12-2-INS-A19156-LD4-2LO-30-120-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: P490059  
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  
Description: 1X2 CLP LED LUMINAIRE WITH A19156 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

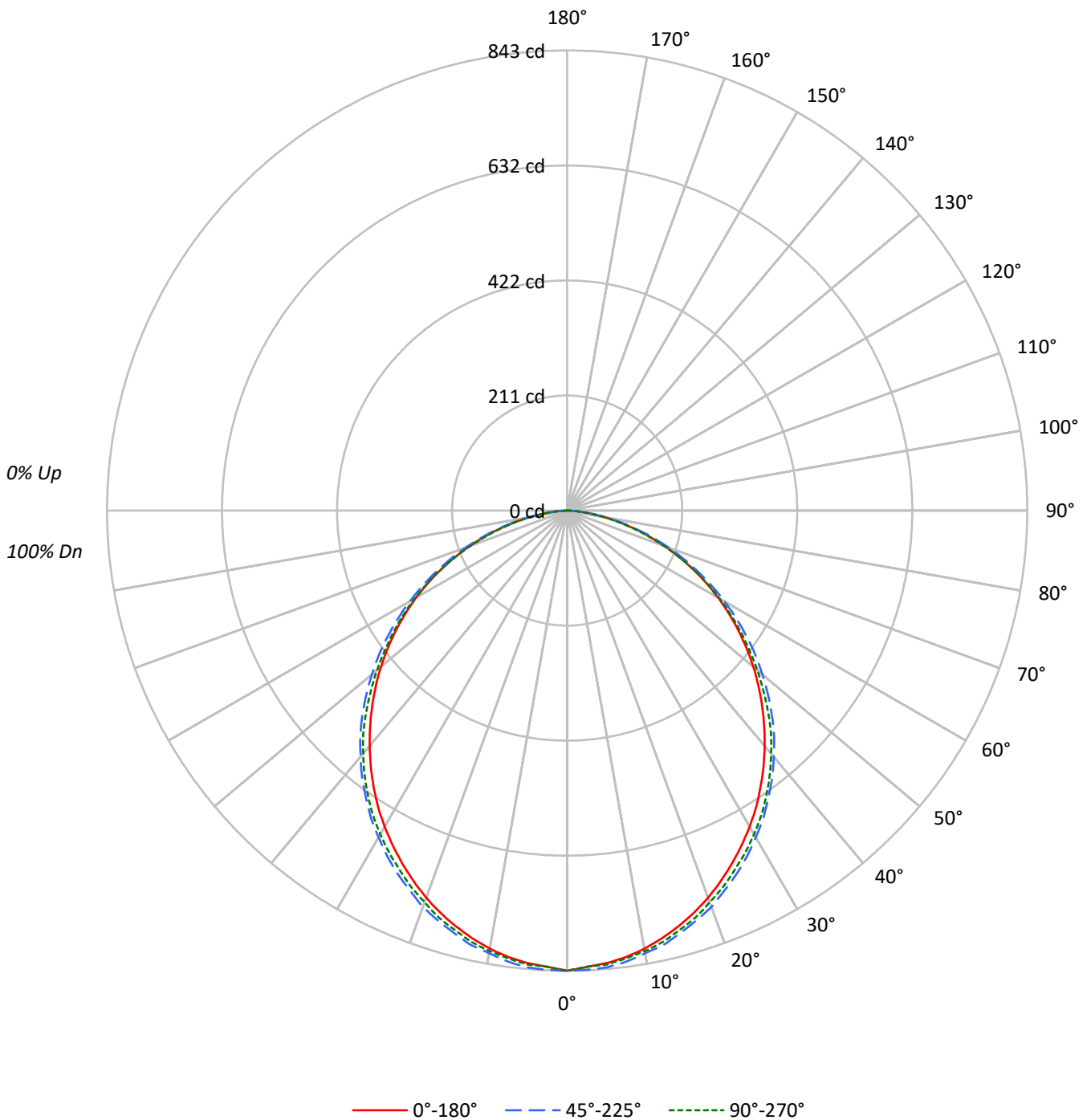
Lumens per Lamp: N/A  
Luminaire Lumens: 2216.5 lumens  
Efficiency: N/A  
Efficacy: 94.7 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

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	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°	4538	4538	4538
5°	4495	4538	4509
10°	4455	4499	4478
15°	4393	4464	4432
20°	4324	4426	4373
25°	4239	4362	4312
30°	4154	4294	4255
35°	4060	4221	4182
40°	3955	4137	4084
45°	3844	4038	3961
50°	3728	3908	3806
55°	3593	3761	3645
60°	3440	3582	3471
65°	3242	3366	3244
70°	2984	3103	2949
75°	2626	2745	2587
80°	2135	2228	2111
85°	1488	1581	1544



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.4	3.6
10°-20°	225.0	10.2
20°-30°	335.6	15.1
30°-40°	397.7	17.9
40°-50°	402.4	18.2
50°-60°	351.4	15.9
60°-70°	256.8	11.6
70°-80°	136.6	6.2
80°-90°	31.6	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°	640.0	28.9
0°-40°	1037.7	46.8
0°-60°	1791.5	80.8
0°-90°	2216.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2216.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	843	843	843	843	843	
5°	832	834	840	842	835	79
15°	788	794	801	806	796	222
25°	714	723	735	737	726	329
35°	618	628	642	647	636	386
45°	505	514	530	531	520	390
55°	383	391	401	395	388	342
65°	255	260	264	259	255	252
75°	126	129	132	127	124	134
85°	24	24	26	26	25	30
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	843.1	843.1	843.1	843.1	843.1
2.5°	836.5	839.2	842.0	843.3	836.4
5°	832.1	833.7	839.9	841.8	834.7
7.5°	824.9	827.3	833.3	834.2	827.4
10°	815.1	819.3	823.3	827.7	819.4
12.5°	802.5	808.2	815.1	815.8	809.5
15°	788.4	793.6	801.1	805.9	795.5
17.5°	772.5	777.6	787.3	788.2	781.9
20°	754.9	761.2	772.8	774.8	763.5
22.5°	734.9	743.4	753.0	755.0	746.6
25°	713.9	722.7	734.6	737.3	726.2
27.5°	691.9	700.3	713.8	715.7	706.3
30°	668.4	676.3	691.0	694.3	684.7
32.5°	644.5	652.4	668.7	671.4	662.1
35°	617.9	627.6	642.5	646.9	636.5
37.5°	590.9	600.3	617.2	621.2	610.0
40°	562.9	572.2	588.8	592.1	581.3
42.5°	534.2	543.5	561.3	561.8	552.9
45°	505.0	513.9	530.5	530.9	520.4
47.5°	475.3	484.3	499.1	497.4	487.6
50°	445.3	453.9	466.8	463.4	454.6
52.5°	414.2	422.5	434.7	429.3	420.9
55°	382.9	390.6	400.8	395.0	388.5
57.5°	351.4	359.2	367.0	361.1	355.5
60°	319.6	326.4	332.8	326.8	322.5
62.5°	287.2	293.1	298.7	292.9	288.9
65°	254.6	259.7	264.3	259.0	254.7
67.5°	222.1	226.4	230.7	225.2	220.7
70°	189.6	193.3	197.2	191.6	187.4
72.5°	157.5	160.8	164.3	158.8	155.2
75°	126.3	129.2	132.0	127.2	124.4
77.5°	96.5	99.0	100.9	97.9	95.1
80°	68.9	70.7	71.9	70.6	68.1
82.5°	44.3	45.6	46.2	46.1	44.4
85°	24.1	24.5	25.6	25.9	25.0
87.5°	9.3	9.9	10.2	11.0	10.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)