

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: P490017

Luminaire Tested: **CLP-12-2-INS-A19156-LD4-1HI-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: P490017  
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-LD4-1HI-50-120-EDD  
Description: 1X2 CLP LED LUMINAIRE WITH A19156 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

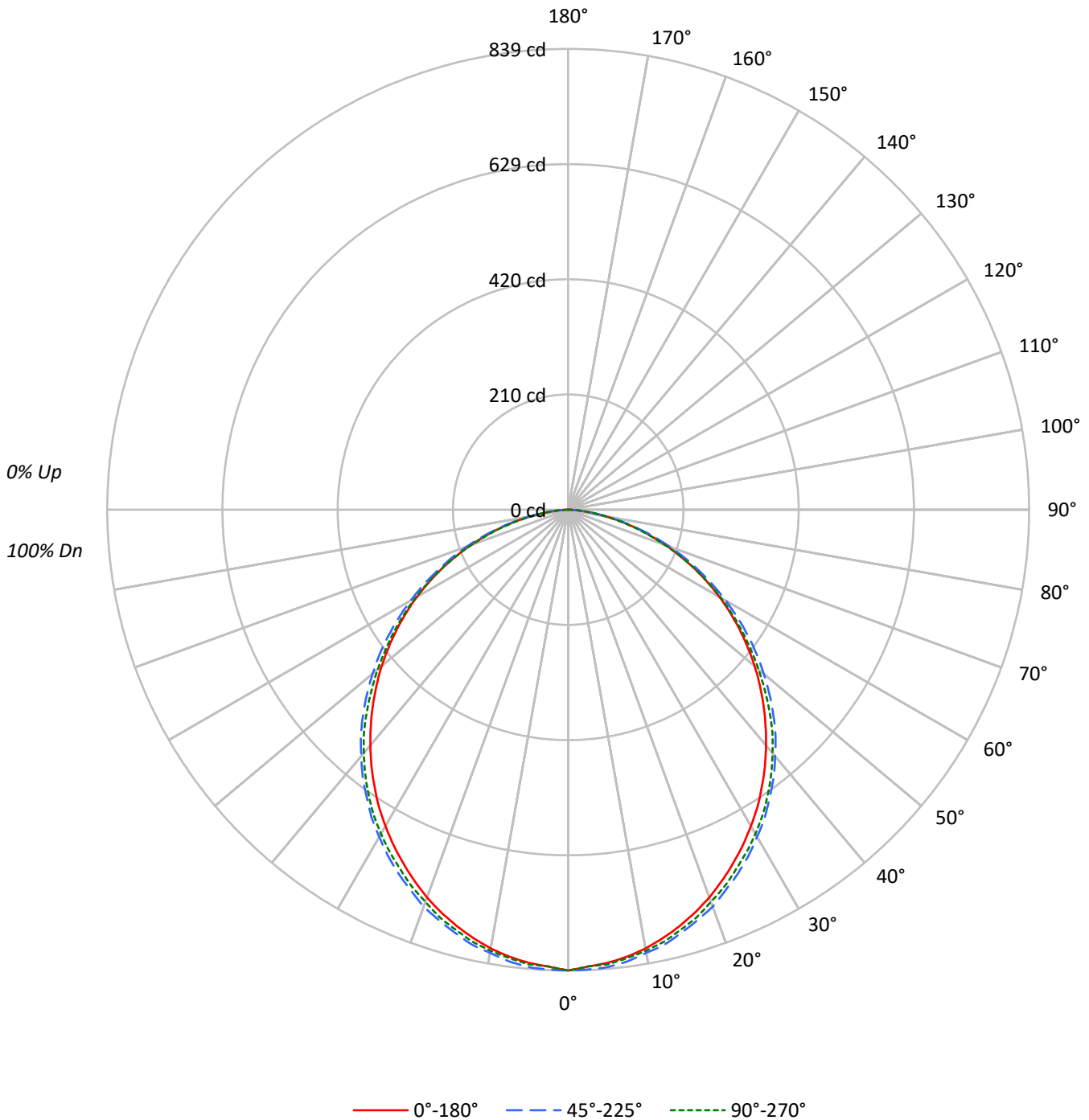
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2205.7 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): 21.6  
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	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°	4515	4515	4515
5°	4473	4515	4488
10°	4433	4477	4456
15°	4371	4442	4411
20°	4302	4404	4352
25°	4219	4341	4291
30°	4133	4274	4235
35°	4040	4200	4162
40°	3935	4116	4064
45°	3825	4018	3942
50°	3710	3889	3788
55°	3575	3743	3628
60°	3423	3565	3455
65°	3226	3349	3228
70°	2968	3087	2935
75°	2614	2732	2574
80°	2123	2216	2098
85°	1482	1575	1538



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.0	3.6
10°-20°	223.9	10.2
20°-30°	334.0	15.1
30°-40°	395.7	17.9
40°-50°	400.4	18.2
50°-60°	349.7	15.9
60°-70°	255.5	11.6
70°-80°	136.0	6.2
80°-90°	31.4	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°	636.9	28.9
0°-40°	1032.6	46.8
0°-60°	1782.8	80.8
0°-90°	2205.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2205.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	839	839	839	839	839	
5°	828	830	836	838	831	79
15°	784	790	797	802	792	221
25°	710	719	731	734	723	327
35°	615	625	639	644	633	385
45°	502	511	528	528	518	388
55°	381	389	399	393	387	341
65°	253	258	263	258	254	251
75°	126	129	131	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°	839.0	839.0	839.0	839.0	839.0
2.5°	832.4	835.1	837.9	839.1	832.3
5°	828.0	829.6	835.8	837.7	830.7
7.5°	820.9	823.2	829.3	830.1	823.3
10°	811.1	815.3	819.3	823.7	815.4
12.5°	798.6	804.3	811.1	811.9	805.6
15°	784.5	789.8	797.2	802.0	791.6
17.5°	768.8	773.8	783.5	784.3	778.0
20°	751.2	757.5	769.0	771.1	759.8
22.5°	731.3	739.8	749.4	751.3	743.0
25°	710.4	719.1	731.0	733.7	722.6
27.5°	688.5	696.9	710.3	712.2	702.9
30°	665.1	673.0	687.7	690.9	681.4
32.5°	641.3	649.2	665.5	668.2	658.9
35°	614.9	624.6	639.3	643.8	633.4
37.5°	588.0	597.4	614.1	618.2	607.0
40°	560.1	569.4	585.9	589.2	578.5
42.5°	531.6	540.9	558.6	559.1	550.2
45°	502.5	511.4	527.9	528.3	517.9
47.5°	473.0	482.0	496.7	495.0	485.2
50°	443.1	451.7	464.5	461.2	452.4
52.5°	412.1	420.4	432.6	427.2	418.9
55°	381.0	388.7	398.9	393.1	386.6
57.5°	349.6	357.4	365.2	359.3	353.8
60°	318.0	324.8	331.2	325.3	321.0
62.5°	285.8	291.7	297.2	291.5	287.5
65°	253.3	258.5	263.0	257.8	253.5
67.5°	221.0	225.3	229.5	224.1	219.7
70°	188.6	192.4	196.2	190.6	186.5
72.5°	156.7	160.0	163.5	158.0	154.5
75°	125.7	128.6	131.4	126.6	123.8
77.5°	96.1	98.5	100.4	97.4	94.7
80°	68.5	70.4	71.5	70.3	67.7
82.5°	44.1	45.4	46.0	45.9	44.2
85°	24.0	24.4	25.5	25.8	24.9
87.5°	9.3	9.9	10.1	10.9	10.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)