

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: P490063

Luminaire Tested: **CLP-12-2-INS-A19156-LD4-2LO-40-120-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: P490063  
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-40-120-EDD  
Description: 1X2 CLP LED LUMINAIRE WITH A19156 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

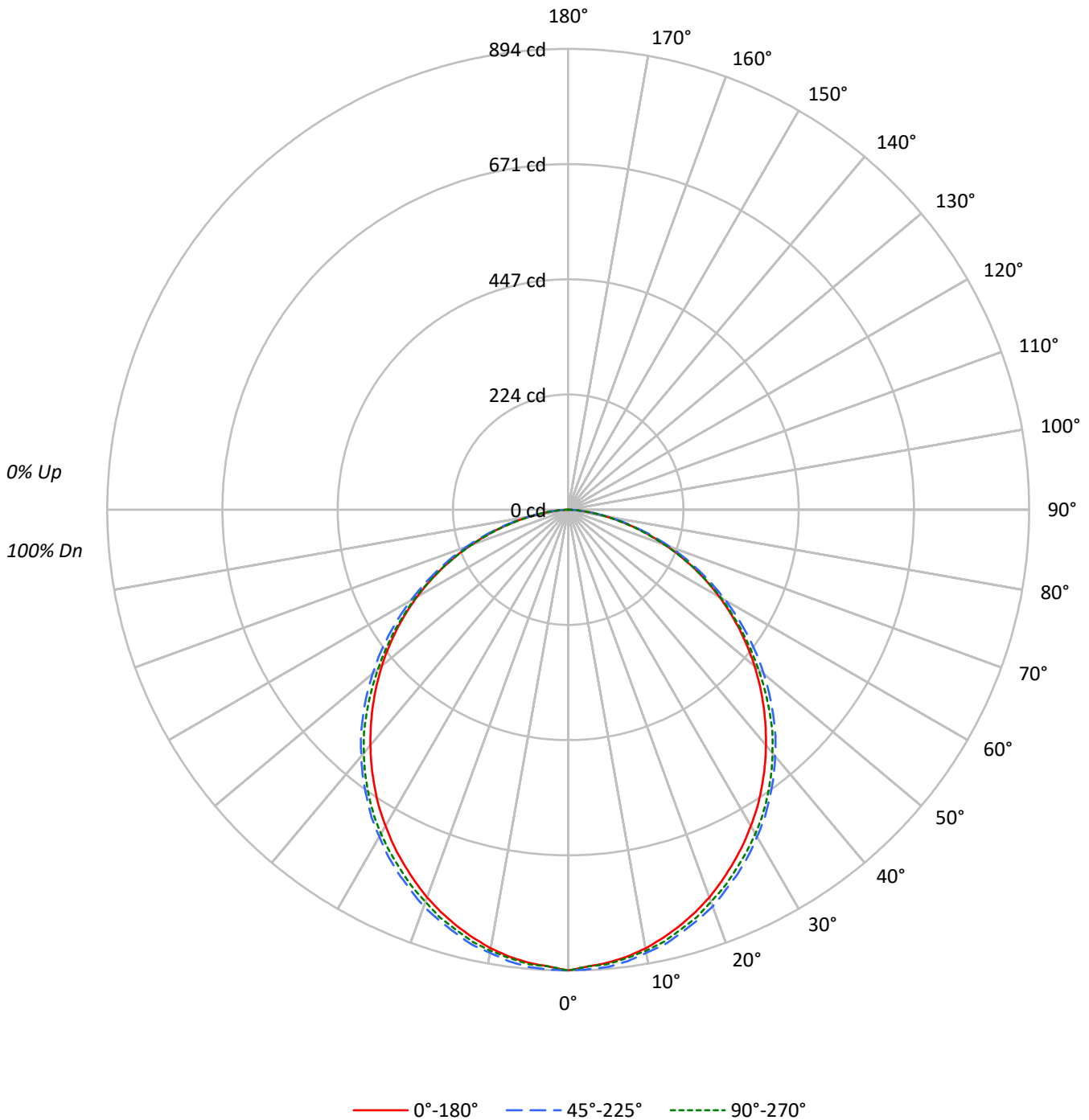
Lumens per Lamp: N/A  
Luminaire Lumens: 2349.7 lumens  
Efficiency: N/A  
Efficacy: 100.4 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 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°	4810	4810	4810
5°	4766	4810	4781
10°	4722	4770	4747
15°	4656	4732	4699
20°	4584	4692	4636
25°	4494	4624	4571
30°	4403	4553	4511
35°	4304	4475	4433
40°	4192	4385	4330
45°	4074	4280	4199
50°	3952	4143	4035
55°	3809	3987	3865
60°	3647	3798	3680
65°	3437	3568	3438
70°	3161	3289	3127
75°	2784	2911	2743
80°	2263	2362	2238
85°	1575	1680	1636



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.2	3.6
10°-20°	238.5	10.2
20°-30°	355.8	15.1
30°-40°	421.6	17.9
40°-50°	426.6	18.2
50°-60°	372.5	15.9
60°-70°	272.2	11.6
70°-80°	144.9	6.2
80°-90°	33.5	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°	678.5	28.9
0°-40°	1100.0	46.8
0°-60°	1899.1	80.8
0°-90°	2349.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2349.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	894	894	894	894	894	
5°	882	884	890	892	885	84
15°	836	841	849	854	843	236
25°	757	766	779	782	770	349
35°	655	665	681	686	675	410
45°	535	545	562	563	552	413
55°	406	414	425	419	412	363
65°	270	275	280	275	270	267
75°	134	137	140	135	132	142
85°	26	26	27	28	26	32
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	893.7	893.7	893.7	893.7	893.7
2.5°	886.8	889.6	892.6	893.9	886.7
5°	882.1	883.8	890.4	892.4	884.9
7.5°	874.5	877.0	883.4	884.3	877.1
10°	864.0	868.5	872.8	877.4	868.6
12.5°	850.7	856.8	864.0	864.9	858.2
15°	835.7	841.3	849.2	854.4	843.3
17.5°	819.0	824.4	834.6	835.5	828.8
20°	800.3	807.0	819.2	821.4	809.4
22.5°	779.0	788.1	798.3	800.3	791.5
25°	756.8	766.1	778.7	781.6	769.8
27.5°	733.5	742.4	756.7	758.7	748.8
30°	708.5	716.9	732.6	736.0	725.9
32.5°	683.2	691.6	708.9	711.8	701.9
35°	655.1	665.3	681.1	685.8	674.7
37.5°	626.4	636.4	654.2	658.5	646.6
40°	596.7	606.6	624.2	627.7	616.3
42.5°	566.3	576.2	595.0	595.6	586.1
45°	535.3	544.8	562.3	562.8	551.7
47.5°	503.9	513.5	529.1	527.3	516.9
50°	472.0	481.1	494.8	491.3	481.9
52.5°	439.0	447.9	460.8	455.1	446.2
55°	405.9	414.1	424.9	418.7	411.9
57.5°	372.5	380.8	389.0	382.8	376.8
60°	338.8	346.0	352.8	346.5	341.9
62.5°	304.5	310.7	316.6	310.5	306.3
65°	269.9	275.3	280.2	274.6	270.0
67.5°	235.4	240.1	244.5	238.8	234.0
70°	200.9	205.0	209.0	203.1	198.7
72.5°	167.0	170.5	174.1	168.4	164.5
75°	133.9	137.0	140.0	134.8	131.9
77.5°	102.3	104.9	107.0	103.7	100.8
80°	73.0	75.0	76.2	74.9	72.2
82.5°	46.9	48.3	49.0	48.9	47.1
85°	25.5	26.0	27.2	27.5	26.5
87.5°	9.9	10.5	10.8	11.6	10.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)