

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: P490347

Luminaire Tested: **CLP-12-4-INS-A19156-LD4-3LO-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: P490347  
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-12-4-INS-A19156-LD4-3LO-30-120-EDD  
Description: 1X4 CLP LED LUMINAIRE WITH A19156 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

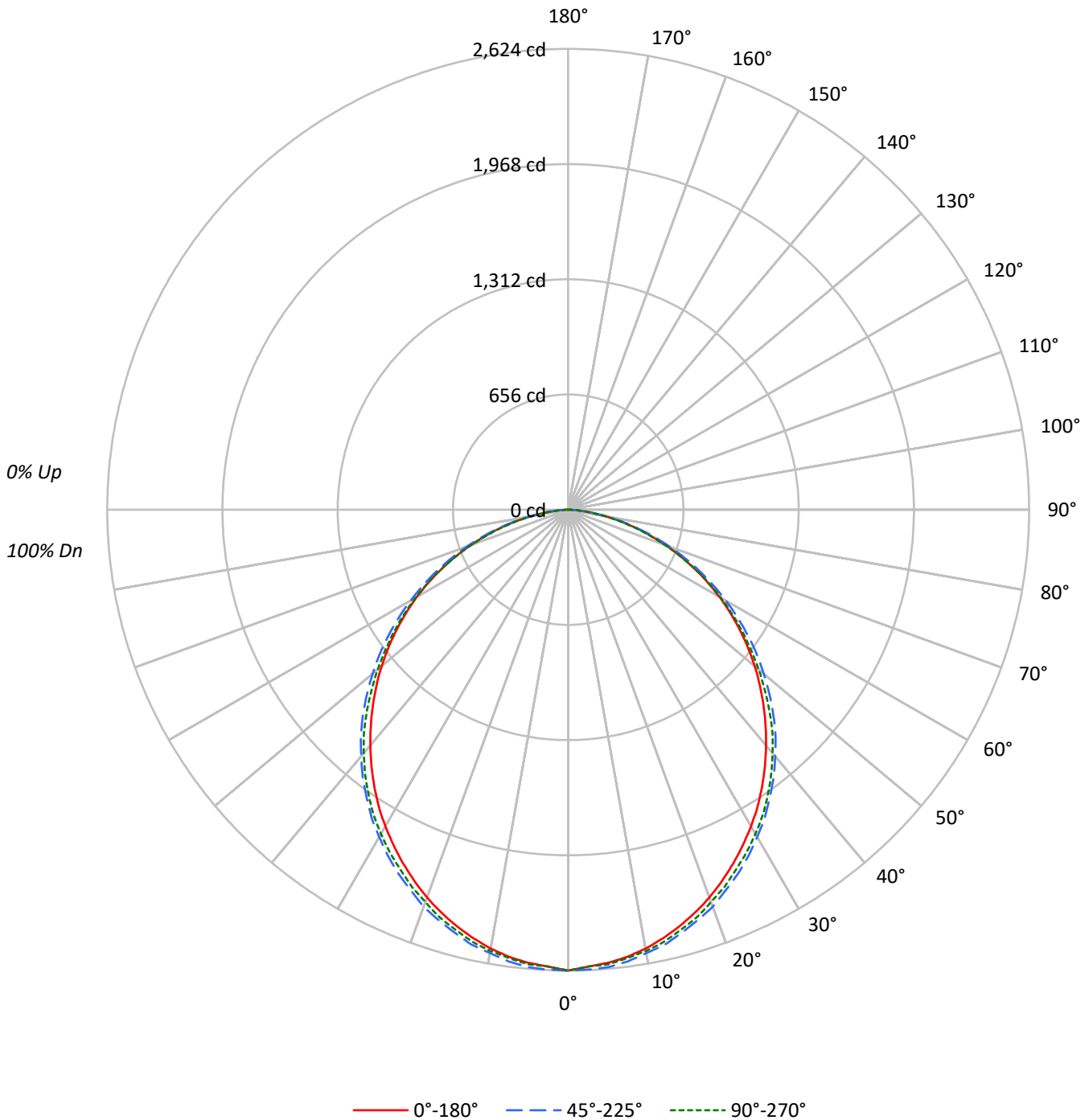
Lumens per Lamp: N/A  
Luminaire Lumens: 6900.0 lumens  
Efficiency: N/A  
Efficacy: 98.3 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 70.2  
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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CATALOG NUMBER: CLP-12-4-INS-A19156-LD4-3LO-30-120-EDD

### 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°	7062	7062	7062
5°	6997	7063	7019
10°	6933	7003	6970
15°	6837	6947	6899
20°	6730	6889	6806
25°	6598	6790	6712
30°	6465	6684	6623
35°	6320	6570	6509
40°	6155	6439	6357
45°	5982	6284	6166
50°	5803	6083	5924
55°	5592	5854	5674
60°	5354	5576	5404
65°	5046	5239	5049
70°	4643	4830	4591
75°	4088	4273	4026
80°	3322	3467	3284
85°	2313	2464	2405



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	247.2	3.6
10°-20°	700.4	10.2
20°-30°	1044.7	15.1
30°-40°	1238.0	17.9
40°-50°	1252.6	18.2
50°-60°	1094.0	15.9
60°-70°	799.4	11.6
70°-80°	425.4	6.2
80°-90°	98.3	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°	1992.3	28.9
0°-40°	3230.3	46.8
0°-60°	5576.9	80.8
0°-90°	6900.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6900.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2624	2624	2624	2624	2624	
5°	2590	2595	2615	2621	2598	246
15°	2454	2471	2494	2509	2476	692
25°	2222	2250	2287	2295	2261	1024
35°	1924	1954	2000	2014	1981	1203
45°	1572	1600	1651	1653	1620	1213
55°	1192	1216	1248	1230	1209	1065
65°	792	809	823	806	793	784
75°	393	402	411	396	387	418
85°	75	76	80	81	78	95
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2624.5	2624.5	2624.5	2624.5	2624.5
2.5°	2604.0	2612.5	2621.2	2625.1	2603.7
5°	2590.3	2595.3	2614.7	2620.7	2598.5
7.5°	2567.9	2575.3	2594.2	2596.9	2575.6
10°	2537.3	2550.4	2563.0	2576.7	2550.7
12.5°	2498.2	2516.0	2537.3	2539.7	2520.1
15°	2454.2	2470.6	2493.8	2508.8	2476.3
17.5°	2404.9	2420.8	2450.9	2453.6	2433.9
20°	2350.0	2369.7	2405.8	2412.0	2376.8
22.5°	2287.6	2314.2	2344.2	2350.3	2324.3
25°	2222.3	2249.6	2286.8	2295.3	2260.6
27.5°	2153.9	2180.2	2222.0	2228.0	2198.8
30°	2080.6	2105.2	2151.2	2161.3	2131.5
32.5°	2006.3	2030.9	2081.7	2090.2	2061.2
35°	1923.7	1953.8	2000.0	2013.9	1981.4
37.5°	1839.5	1868.7	1921.2	1933.8	1898.8
40°	1752.2	1781.2	1832.9	1843.3	1809.7
42.5°	1663.1	1692.1	1747.3	1748.9	1721.1
45°	1572.0	1599.9	1651.3	1652.7	1620.2
47.5°	1479.6	1507.8	1553.7	1548.5	1517.9
50°	1386.1	1412.9	1453.1	1442.7	1415.1
52.5°	1289.3	1315.3	1353.3	1336.3	1310.3
55°	1191.9	1216.0	1247.7	1229.7	1209.4
57.5°	1093.8	1118.1	1142.4	1124.1	1106.6
60°	994.8	1016.1	1036.1	1017.5	1004.1
62.5°	894.2	912.5	929.7	911.9	899.4
65°	792.4	808.6	822.8	806.4	793.0
67.5°	691.3	704.9	718.1	701.1	687.2
70°	590.1	601.8	613.9	596.4	583.5
72.5°	490.3	500.7	511.3	494.4	483.2
75°	393.2	402.2	411.0	395.9	387.2
77.5°	300.5	308.2	314.2	304.6	296.1
80°	214.4	220.1	223.7	219.8	211.9
82.5°	137.8	141.9	143.8	143.6	138.4
85°	74.9	76.3	79.8	80.7	77.9
87.5°	29.0	30.9	31.7	34.2	31.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)