

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: P490262

Luminaire Tested: **CLP-12-4-INS-A19156-LD4-1HI-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: P490262  
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-LD4-1HI-30-120-EDD-90  
Description: 1X4 CLP LED LUMINAIRE WITH A19156 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

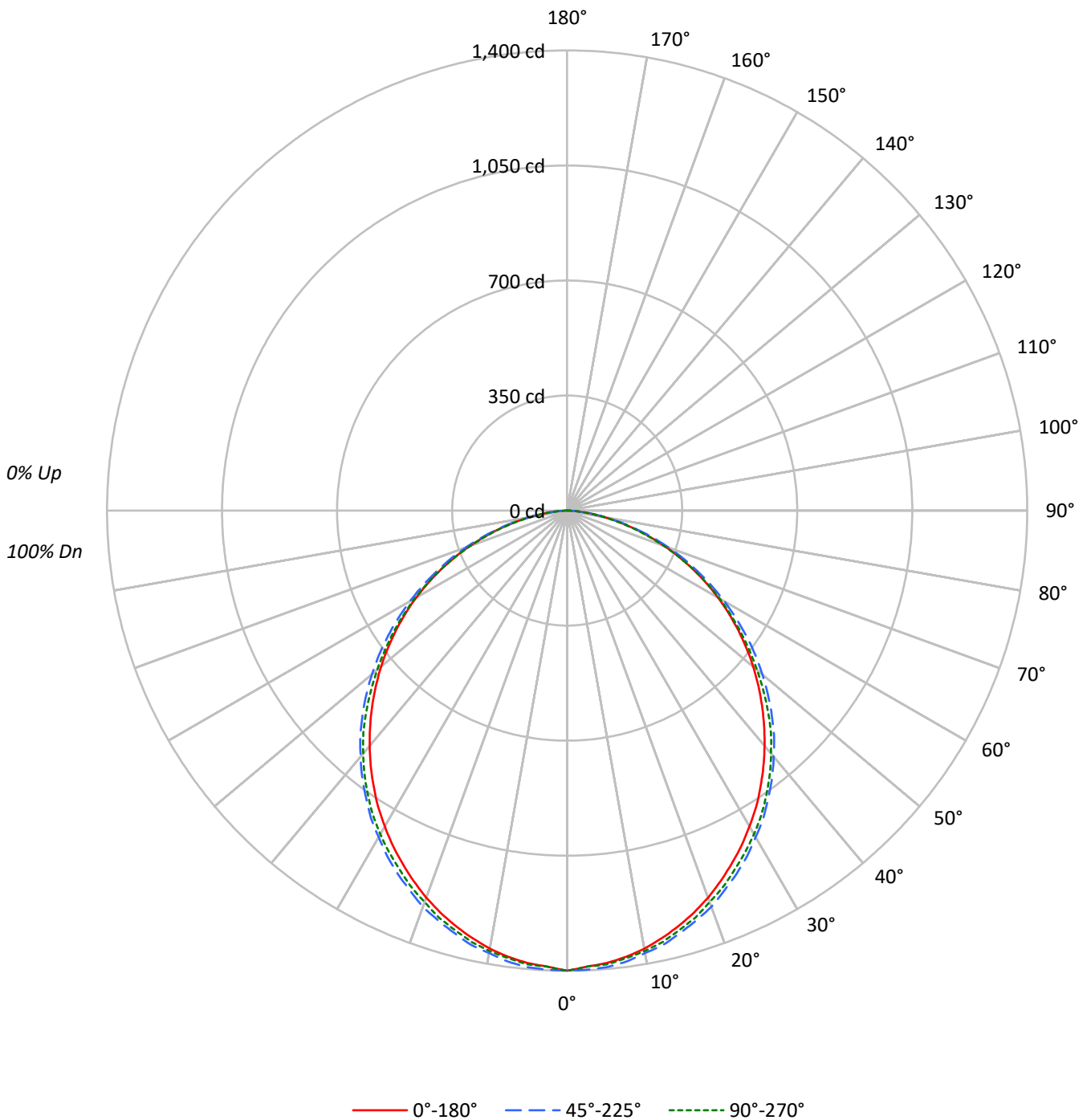
Lumens per Lamp: N/A  
Luminaire Lumens: 3680.0 lumens  
Efficiency: N/A  
Efficacy: 85.2 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 43.2  
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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### 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°	3767	3767	3767
5°	3732	3767	3744
10°	3698	3735	3717
15°	3646	3705	3679
20°	3589	3674	3630
25°	3519	3621	3580
30°	3448	3565	3532
35°	3370	3504	3471
40°	3283	3434	3390
45°	3191	3352	3288
50°	3095	3244	3159
55°	2982	3122	3026
60°	2856	2974	2882
65°	2691	2794	2693
70°	2476	2576	2448
75°	2180	2279	2147
80°	1771	1849	1751
85°	1235	1315	1284



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	131.8	3.6
10°-20°	373.6	10.2
20°-30°	557.2	15.1
30°-40°	660.2	17.9
40°-50°	668.1	18.2
50°-60°	583.4	15.9
60°-70°	426.4	11.6
70°-80°	226.9	6.2
80°-90°	52.4	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°	1062.6	28.9
0°-40°	1722.8	46.8
0°-60°	2974.3	80.8
0°-90°	3680.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3680.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1400	1400	1400	1400	1400	
5°	1382	1384	1394	1398	1386	131
15°	1309	1318	1330	1338	1321	369
25°	1185	1200	1220	1224	1206	546
35°	1026	1042	1067	1074	1057	642
45°	838	853	881	881	864	647
55°	636	648	666	656	645	568
65°	423	431	439	430	423	418
75°	210	214	219	211	206	223
85°	40	41	43	43	42	51
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1399.7	1399.7	1399.7	1399.7	1399.7
2.5°	1388.8	1393.3	1398.0	1400.0	1388.7
5°	1381.5	1384.1	1394.5	1397.7	1385.9
7.5°	1369.6	1373.5	1383.6	1385.0	1373.6
10°	1353.2	1360.2	1366.9	1374.2	1360.4
12.5°	1332.4	1341.8	1353.2	1354.5	1344.0
15°	1308.9	1317.6	1330.0	1338.1	1320.7
17.5°	1282.6	1291.1	1307.1	1308.6	1298.1
20°	1253.3	1263.8	1283.1	1286.4	1267.6
22.5°	1220.1	1234.2	1250.3	1253.5	1239.6
25°	1185.2	1199.8	1219.6	1224.2	1205.6
27.5°	1148.8	1162.8	1185.1	1188.3	1172.7
30°	1109.7	1122.8	1147.3	1152.7	1136.8
32.5°	1070.0	1083.1	1110.3	1114.8	1099.3
35°	1026.0	1042.0	1066.6	1074.1	1056.7
37.5°	981.0	996.6	1024.6	1031.4	1012.7
40°	934.5	950.0	977.5	983.1	965.1
42.5°	887.0	902.4	931.9	932.8	917.9
45°	838.4	853.3	880.7	881.4	864.1
47.5°	789.1	804.1	828.6	825.9	809.5
50°	739.2	753.5	775.0	769.4	754.7
52.5°	687.6	701.5	721.7	712.7	698.8
55°	635.7	648.5	665.5	655.8	645.0
57.5°	583.3	596.3	609.3	599.5	590.2
60°	530.6	541.9	552.6	542.7	535.5
62.5°	476.9	486.7	495.8	486.4	479.7
65°	422.6	431.2	438.8	430.1	422.9
67.5°	368.7	376.0	383.0	373.9	366.5
70°	314.7	321.0	327.4	318.1	311.2
72.5°	261.5	267.0	272.7	263.7	257.7
75°	209.7	214.5	219.2	211.2	206.5
77.5°	160.3	164.4	167.6	162.5	157.9
80°	114.3	117.4	119.3	117.3	113.0
82.5°	73.5	75.7	76.7	76.6	73.8
85°	40.0	40.7	42.6	43.0	41.6
87.5°	15.5	16.5	16.9	18.2	16.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)