

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: P490337

Luminaire Tested: **CLP-12-4-INS-A19156-LD4-3HI-35-120-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: P490337  
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-LD4-3HI-35-120-EDD  
Description: 1X4 CLP LED LUMINAIRE WITH A19156 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

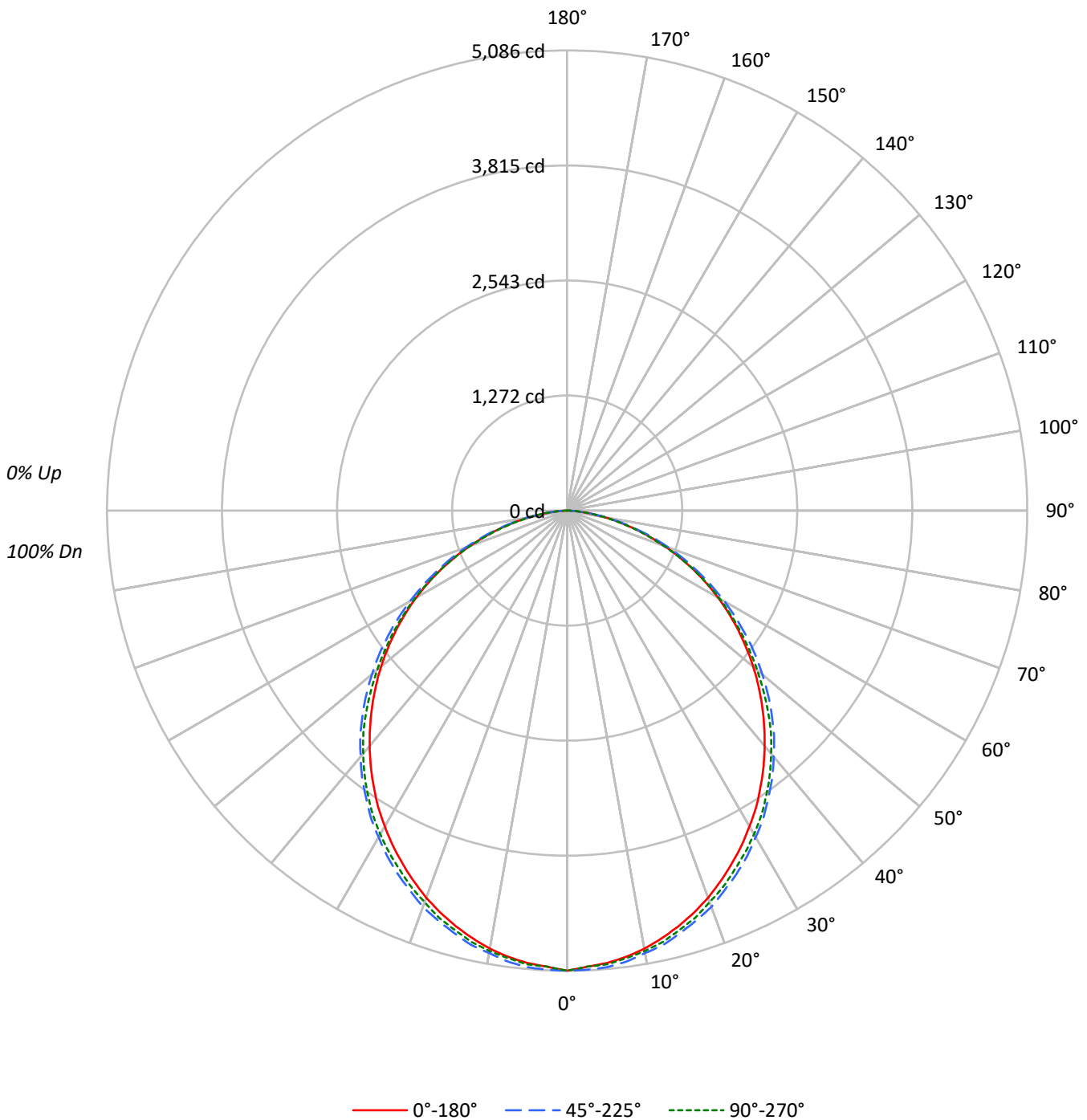
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13370.0 lumens  
Efficiency: N/A  
Efficacy: 103.2 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): 129.6  
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°	13685	13685	13685
5°	13558	13686	13601
10°	13434	13570	13505
15°	13248	13462	13368
20°	13040	13349	13188
25°	12786	13157	13006
30°	12527	12952	12834
35°	12245	12731	12612
40°	11927	12476	12318
45°	11592	12177	11947
50°	11244	11787	11479
55°	10836	11343	10995
60°	10374	10805	10471
65°	9777	10152	9784
70°	8996	9359	8896
75°	7922	8280	7801
80°	6437	6716	6363
85°	4483	4776	4662



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	478.9	3.6
10°-20°	1357.2	10.2
20°-30°	2024.3	15.1
30°-40°	2398.8	17.9
40°-50°	2427.2	18.2
50°-60°	2119.8	15.9
60°-70°	1549.1	11.6
70°-80°	824.2	6.2
80°-90°	190.5	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°	3860.5	28.9
0°-40°	6259.2	46.8
0°-60°	10806.2	80.8
0°-90°	13370.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13370.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5086	5086	5086	5086	5086	
5°	5019	5029	5066	5078	5035	476
15°	4755	4787	4832	4861	4798	1341
25°	4306	4359	4431	4448	4380	1984
35°	3728	3786	3875	3902	3839	2331
45°	3046	3100	3200	3202	3139	2350
55°	2310	2356	2418	2383	2344	2065
65°	1536	1567	1594	1562	1537	1519
75°	762	779	796	767	750	810
85°	145	148	155	156	151	184
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5085.5	5085.5	5085.5	5085.5	5085.5
2.5°	5045.7	5062.2	5079.1	5086.5	5045.2
5°	5019.2	5028.8	5066.4	5078.1	5035.1
7.5°	4975.8	4990.1	5026.7	5032.0	4990.6
10°	4916.5	4941.9	4966.3	4992.7	4942.4
12.5°	4840.7	4875.1	4916.5	4921.2	4883.1
15°	4755.4	4787.2	4832.2	4861.3	4798.3
17.5°	4660.0	4690.7	4749.0	4754.3	4716.2
20°	4553.5	4591.7	4661.6	4673.8	4605.4
22.5°	4432.7	4484.1	4542.4	4554.0	4503.7
25°	4306.1	4359.1	4431.1	4447.5	4380.2
27.5°	4173.6	4224.5	4305.5	4317.2	4260.5
30°	4031.6	4079.3	4168.3	4187.9	4130.2
32.5°	3887.5	3935.2	4033.7	4050.2	3994.0
35°	3727.5	3785.8	3875.3	3902.3	3839.3
37.5°	3564.3	3621.0	3722.7	3747.1	3679.3
40°	3395.3	3451.4	3551.6	3571.7	3506.5
42.5°	3222.5	3278.7	3385.7	3388.9	3334.9
45°	3046.1	3100.1	3199.7	3202.4	3139.3
47.5°	2867.0	2921.6	3010.6	3000.5	2941.2
50°	2685.8	2737.7	2815.6	2795.5	2742.0
52.5°	2498.2	2548.6	2622.2	2589.4	2539.0
55°	2309.6	2356.2	2417.7	2382.7	2343.5
57.5°	2119.4	2166.5	2213.7	2178.2	2144.3
60°	1927.6	1968.9	2007.6	1971.6	1945.6
62.5°	1732.6	1768.1	1801.5	1767.0	1742.7
65°	1535.5	1566.8	1594.3	1562.5	1536.6
67.5°	1339.5	1365.9	1391.4	1358.5	1331.5
70°	1143.4	1166.2	1189.5	1155.6	1130.7
72.5°	950.0	970.1	990.8	958.0	936.2
75°	761.9	779.4	796.4	767.2	750.3
77.5°	582.3	597.1	608.8	590.2	573.8
80°	415.4	426.5	433.4	426.0	410.6
82.5°	267.0	275.0	278.7	278.2	268.1
85°	145.2	147.8	154.7	156.3	151.0
87.5°	56.2	59.9	61.5	66.2	60.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)