

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: P490302

Luminaire Tested: **CLP-12-4-INS-A19156-LD4-2HI-40-120-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: P490302
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-LD4-2HI-40-120-EDD-90
Description: 1X4 CLP LED LUMINAIRE WITH A19156 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

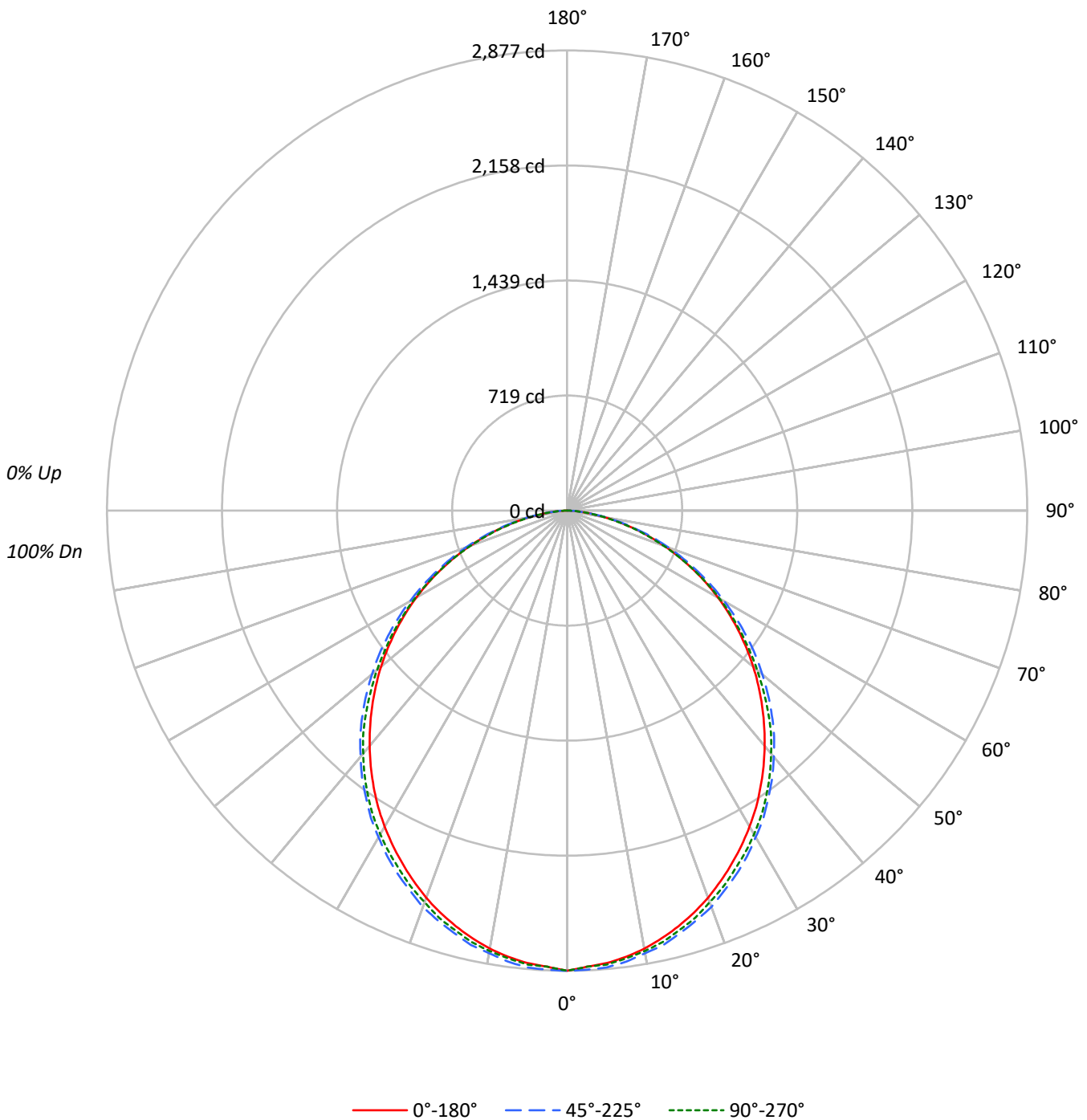
Lumens per Lamp: N/A
Luminaire Lumens: 7564.1 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 86.4
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°	7742	7742	7742
5°	7670	7743	7695
10°	7600	7677	7641
15°	7495	7616	7563
20°	7377	7552	7461
25°	7233	7443	7358
30°	7087	7328	7260
35°	6928	7203	7136
40°	6748	7058	6969
45°	6558	6889	6759
50°	6361	6669	6494
55°	6130	6417	6220
60°	5869	6113	5924
65°	5531	5743	5535
70°	5090	5295	5033
75°	4482	4684	4414
80°	3642	3800	3600
85°	2535	2702	2637



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.0	3.6
10°-20°	767.9	10.2
20°-30°	1145.2	15.1
30°-40°	1357.1	17.9
40°-50°	1373.2	18.2
50°-60°	1199.3	15.9
60°-70°	876.4	11.6
70°-80°	466.3	6.2
80°-90°	107.8	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°	2184.1	28.9
0°-40°	3541.2	46.8
0°-60°	6113.6	80.8
0°-90°	7564.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7564.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2877	2877	2877	2877	2877	
5°	2840	2845	2866	2873	2849	269
15°	2690	2708	2734	2750	2715	758
25°	2436	2466	2507	2516	2478	1122
35°	2109	2142	2192	2208	2172	1319
45°	1723	1754	1810	1812	1776	1329
55°	1307	1333	1368	1348	1326	1168
65°	869	886	902	884	869	860
75°	431	441	450	434	424	458
85°	82	84	88	88	85	104
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2877.1	2877.1	2877.1	2877.1	2877.1
2.5°	2854.6	2863.9	2873.5	2877.7	2854.3
5°	2839.6	2845.0	2866.3	2872.9	2848.6
7.5°	2815.1	2823.2	2843.8	2846.8	2823.5
10°	2781.5	2795.9	2809.7	2824.7	2796.2
12.5°	2738.6	2758.1	2781.5	2784.2	2762.6
15°	2690.4	2708.3	2733.8	2750.3	2714.6
17.5°	2636.4	2653.8	2686.8	2689.8	2668.2
20°	2576.2	2597.7	2637.3	2644.2	2605.5
22.5°	2507.8	2536.9	2569.9	2576.5	2548.0
25°	2436.2	2466.1	2506.9	2516.2	2478.1
27.5°	2361.2	2390.0	2435.9	2442.5	2410.4
30°	2280.9	2307.9	2358.2	2369.3	2336.6
32.5°	2199.4	2226.3	2282.1	2291.4	2259.6
35°	2108.8	2141.8	2192.5	2207.7	2172.1
37.5°	2016.5	2048.6	2106.1	2119.9	2081.5
40°	1920.9	1952.6	2009.3	2020.7	1983.8
42.5°	1823.2	1854.9	1915.5	1917.3	1886.7
45°	1723.3	1753.9	1810.3	1811.8	1776.1
47.5°	1622.0	1652.9	1703.2	1697.6	1664.0
50°	1519.5	1548.9	1592.9	1581.5	1551.3
52.5°	1413.4	1441.9	1483.5	1464.9	1436.5
55°	1306.7	1333.0	1367.8	1348.0	1325.8
57.5°	1199.0	1225.7	1252.4	1232.3	1213.1
60°	1090.5	1113.9	1135.8	1115.4	1100.7
62.5°	980.2	1000.3	1019.2	999.7	985.9
65°	868.7	886.4	902.0	884.0	869.3
67.5°	757.8	772.8	787.2	768.6	753.3
70°	646.9	659.8	673.0	653.8	639.7
72.5°	537.5	548.9	560.6	542.0	529.7
75°	431.1	440.9	450.5	434.1	424.5
77.5°	329.4	337.8	344.4	333.9	324.6
80°	235.0	241.3	245.2	241.0	232.3
82.5°	151.1	155.6	157.7	157.4	151.7
85°	82.1	83.6	87.5	88.4	85.4
87.5°	31.8	33.9	34.8	37.5	34.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)