

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: P490362

Luminaire Tested: **CLP-12-4-INS-A19156-LD4-3STD-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: P490362
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-LD4-3STD-40-120-EDD-90
Description: 1X4 CLP LED LUMINAIRE WITH A19156 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

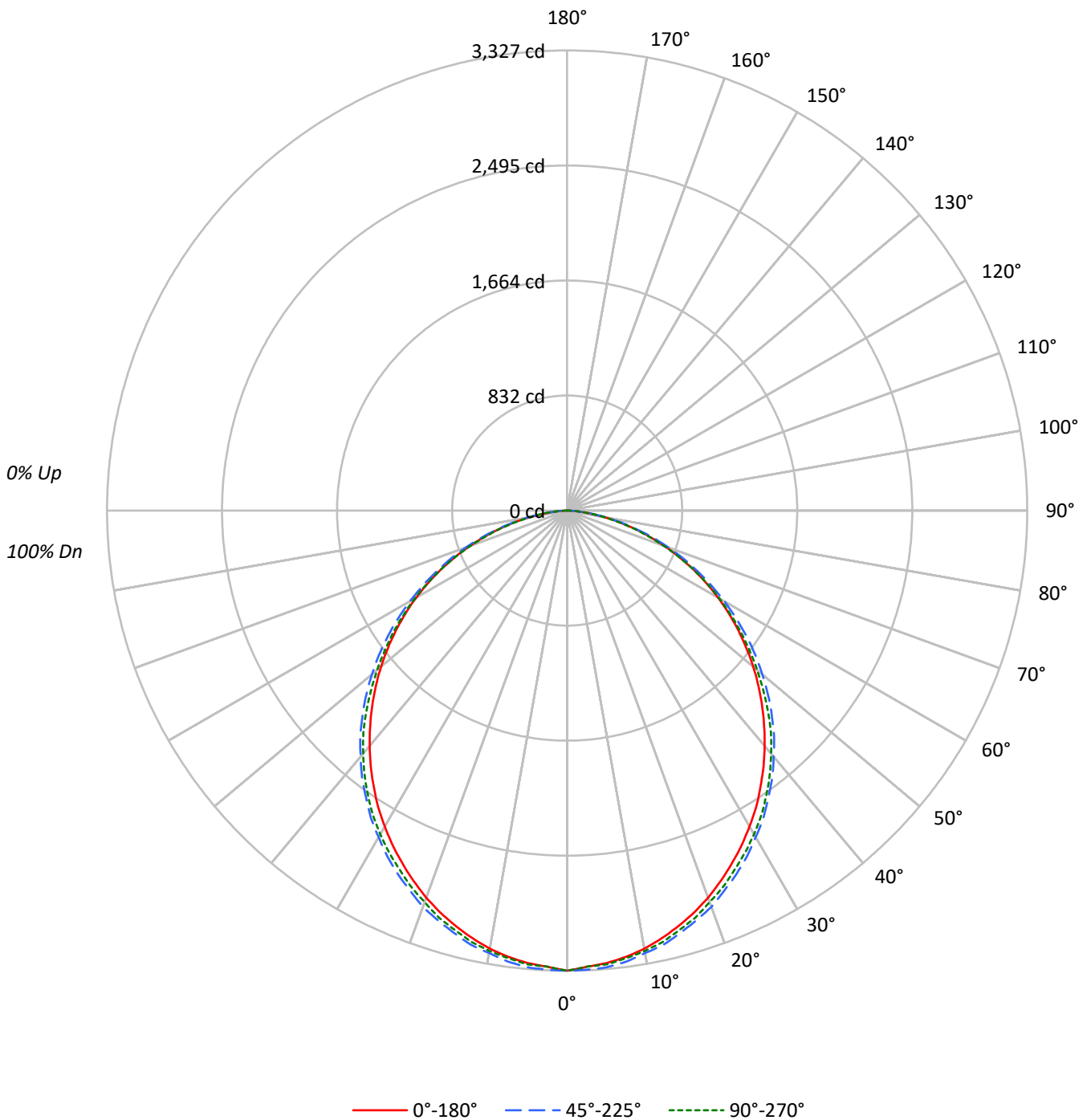
Lumens per Lamp: N/A
Luminaire Lumens: 8746.0 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 99.9
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°	8952	8952	8952
5°	8869	8953	8897
10°	8788	8877	8834
15°	8666	8806	8744
20°	8530	8733	8627
25°	8364	8606	8508
30°	8195	8473	8395
35°	8010	8328	8250
40°	7802	8161	8058
45°	7583	7966	7815
50°	7355	7711	7509
55°	7088	7420	7192
60°	6786	7068	6850
65°	6395	6641	6400
70°	5885	6122	5819
75°	5182	5416	5103
80°	4210	4393	4162
85°	2933	3125	3051



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.3	3.6
10°-20°	887.8	10.2
20°-30°	1324.2	15.1
30°-40°	1569.2	17.9
40°-50°	1587.8	18.2
50°-60°	1386.7	15.9
60°-70°	1013.3	11.6
70°-80°	539.2	6.2
80°-90°	124.6	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°	2525.3	28.9
0°-40°	4094.5	46.8
0°-60°	7068.9	80.8
0°-90°	8746.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8746.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3327	3327	3327	3327	3327	
5°	3283	3290	3314	3322	3294	311
15°	3111	3132	3161	3180	3139	877
25°	2817	2852	2899	2909	2865	1298
35°	2438	2476	2535	2553	2512	1525
45°	1993	2028	2093	2095	2054	1537
55°	1511	1541	1582	1559	1533	1351
65°	1004	1025	1043	1022	1005	994
75°	498	510	521	502	491	530
85°	95	97	101	102	99	120
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3326.7	3326.7	3326.7	3326.7	3326.7
2.5°	3300.7	3311.4	3322.5	3327.4	3300.3
5°	3283.3	3289.6	3314.2	3321.8	3293.7
7.5°	3254.9	3264.3	3288.2	3291.7	3264.6
10°	3216.1	3232.7	3248.7	3266.0	3233.1
12.5°	3166.5	3189.1	3216.1	3219.2	3194.3
15°	3110.7	3131.5	3161.0	3180.1	3138.8
17.5°	3048.3	3068.5	3106.6	3110.0	3085.1
20°	2978.7	3003.6	3049.4	3057.4	3012.6
22.5°	2899.7	2933.3	2971.4	2979.0	2946.1
25°	2816.8	2851.5	2898.6	2909.4	2865.3
27.5°	2730.2	2763.4	2816.5	2824.1	2787.0
30°	2637.3	2668.5	2726.7	2739.5	2701.7
32.5°	2543.0	2574.2	2638.7	2649.4	2612.7
35°	2438.3	2476.5	2535.0	2552.7	2511.5
37.5°	2331.6	2368.7	2435.2	2451.2	2406.8
40°	2221.0	2257.8	2323.3	2336.4	2293.8
42.5°	2108.0	2144.8	2214.8	2216.9	2181.5
45°	1992.6	2028.0	2093.1	2094.9	2053.6
47.5°	1875.5	1911.2	1969.4	1962.8	1924.0
50°	1756.9	1790.9	1841.8	1828.7	1793.7
52.5°	1634.2	1667.1	1715.3	1693.8	1660.9
55°	1510.8	1541.3	1581.5	1558.7	1533.0
57.5°	1386.4	1417.2	1448.1	1424.9	1402.7
60°	1260.9	1288.0	1313.3	1289.7	1272.7
62.5°	1133.4	1156.6	1178.4	1155.9	1140.0
65°	1004.4	1024.9	1042.9	1022.1	1005.1
67.5°	876.2	893.5	910.2	888.7	871.0
70°	748.0	762.9	778.1	755.9	739.6
72.5°	621.5	634.6	648.1	626.7	612.4
75°	498.4	509.8	520.9	501.9	490.8
77.5°	380.9	390.6	398.2	386.1	375.4
80°	271.7	279.0	283.5	278.7	268.6
82.5°	174.7	179.9	182.3	182.0	175.4
85°	95.0	96.7	101.2	102.2	98.8
87.5°	36.7	39.2	40.2	43.3	39.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)