

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: P490035

Luminaire Tested: **CLP-12-2-INS-A19156-LD4-1STD-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: P490035
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-12-2-INS-A19156-LD4-1STD-30-120-EDD
Description: 1X2 CLP LED LUMINAIRE WITH A19156 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

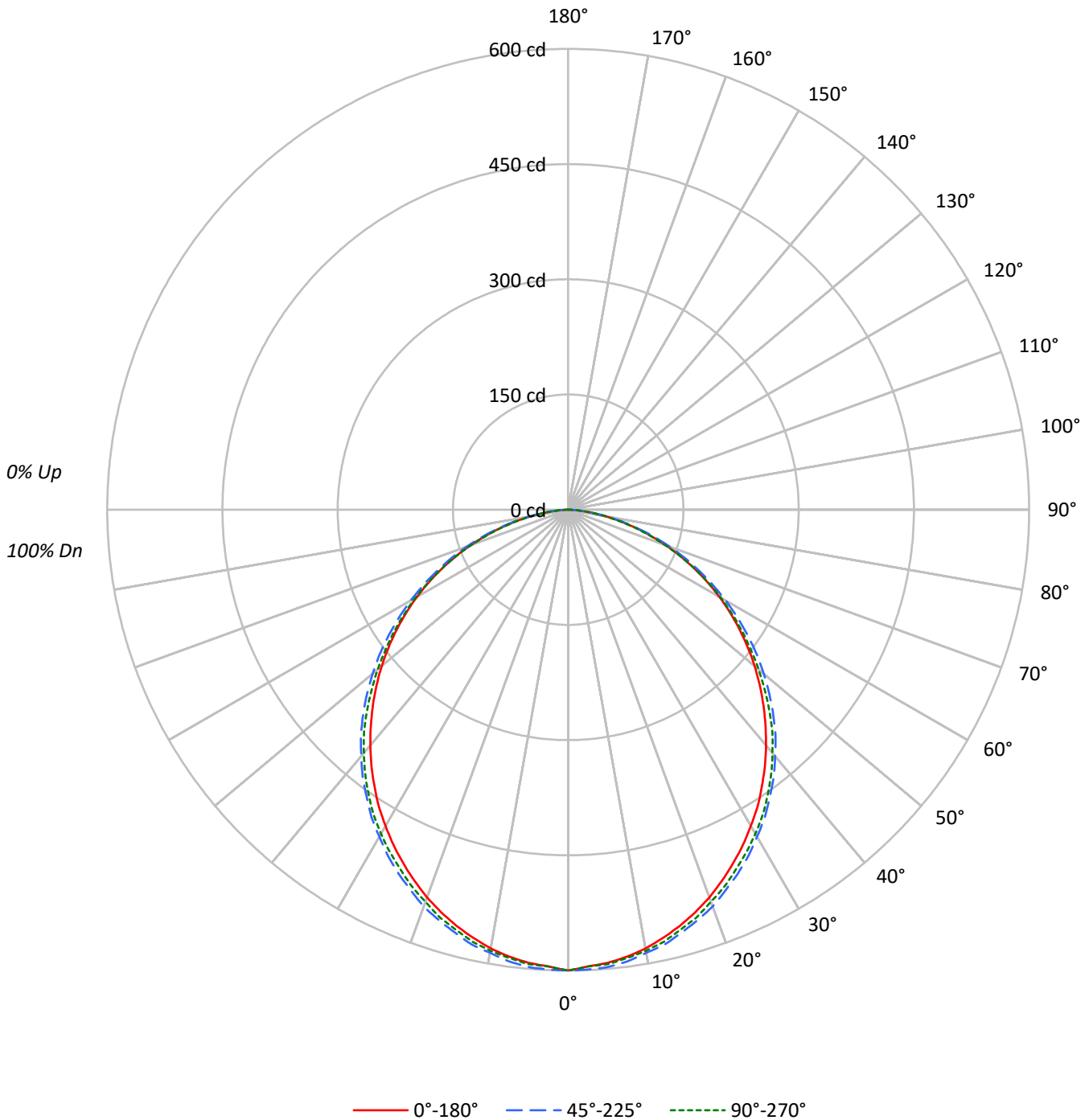
Lumens per Lamp: N/A
Luminaire Lumens: 1577.2 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 16.6
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°	3229	3229	3229
5°	3199	3229	3209
10°	3170	3201	3186
15°	3126	3176	3154
20°	3077	3149	3112
25°	3017	3104	3068
30°	2956	3056	3028
35°	2889	3004	2976
40°	2814	2944	2906
45°	2735	2873	2818
50°	2653	2781	2709
55°	2557	2676	2594
60°	2448	2549	2470
65°	2306	2395	2309
70°	2123	2208	2099
75°	1869	1953	1840
80°	1519	1584	1500
85°	1056	1130	1099



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.5	3.6
10°-20°	160.1	10.2
20°-30°	238.8	15.1
30°-40°	283.0	17.9
40°-50°	286.3	18.2
50°-60°	250.1	15.9
60°-70°	182.7	11.6
70°-80°	97.2	6.2
80°-90°	22.5	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°	455.4	28.9
0°-40°	738.4	46.8
0°-60°	1274.8	80.8
0°-90°	1577.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1577.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	600	600	600	600	600	
5°	592	593	598	599	594	56
15°	561	565	570	574	566	158
25°	508	514	523	525	517	234
35°	440	447	457	460	453	275
45°	359	366	378	378	370	277
55°	272	278	285	281	276	244
65°	181	185	188	184	181	179
75°	90	92	94	90	88	96
85°	17	17	18	18	18	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	599.9	599.9	599.9	599.9	599.9
2.5°	595.2	597.2	599.2	600.0	595.2
5°	592.1	593.2	597.7	599.0	594.0
7.5°	587.0	588.7	593.0	593.6	588.7
10°	580.0	583.0	585.8	589.0	583.0
12.5°	571.0	575.1	580.0	580.5	576.0
15°	561.0	564.7	570.0	573.5	566.0
17.5°	549.7	553.3	560.2	560.8	556.3
20°	537.2	541.7	549.9	551.3	543.3
22.5°	522.9	529.0	535.8	537.2	531.3
25°	508.0	514.2	522.7	524.7	516.7
27.5°	492.3	498.3	507.9	509.3	502.6
30°	475.6	481.2	491.7	494.0	487.2
32.5°	458.6	464.2	475.8	477.8	471.2
35°	439.7	446.6	457.2	460.3	452.9
37.5°	420.5	427.2	439.2	442.0	434.0
40°	400.5	407.1	419.0	421.3	413.6
42.5°	380.1	386.8	399.4	399.8	393.4
45°	359.3	365.7	377.5	377.8	370.3
47.5°	338.2	344.6	355.1	354.0	347.0
50°	316.8	323.0	332.1	329.8	323.5
52.5°	294.7	300.6	309.3	305.5	299.5
55°	272.5	278.0	285.2	281.1	276.5
57.5°	250.0	255.6	261.1	257.0	253.0
60°	227.4	232.3	236.8	232.6	229.5
62.5°	204.4	208.6	212.5	208.4	205.6
65°	181.1	184.8	188.1	184.3	181.3
67.5°	158.0	161.1	164.1	160.3	157.1
70°	134.9	137.6	140.3	136.3	133.4
72.5°	112.1	114.4	116.9	113.0	110.4
75°	89.9	91.9	93.9	90.5	88.5
77.5°	68.7	70.4	71.8	69.6	67.7
80°	49.0	50.3	51.1	50.3	48.4
82.5°	31.5	32.4	32.9	32.8	31.6
85°	17.1	17.4	18.3	18.4	17.8
87.5°	6.6	7.1	7.3	7.8	7.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)