

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: P490055

Luminaire Tested: **CLP-12-2-INS-A19156-LD4-2LO-20-120-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: P490055
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-LD4-2LO-20-120-EDD
Description: 1X2 CLP LED LUMINAIRE WITH A19156 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

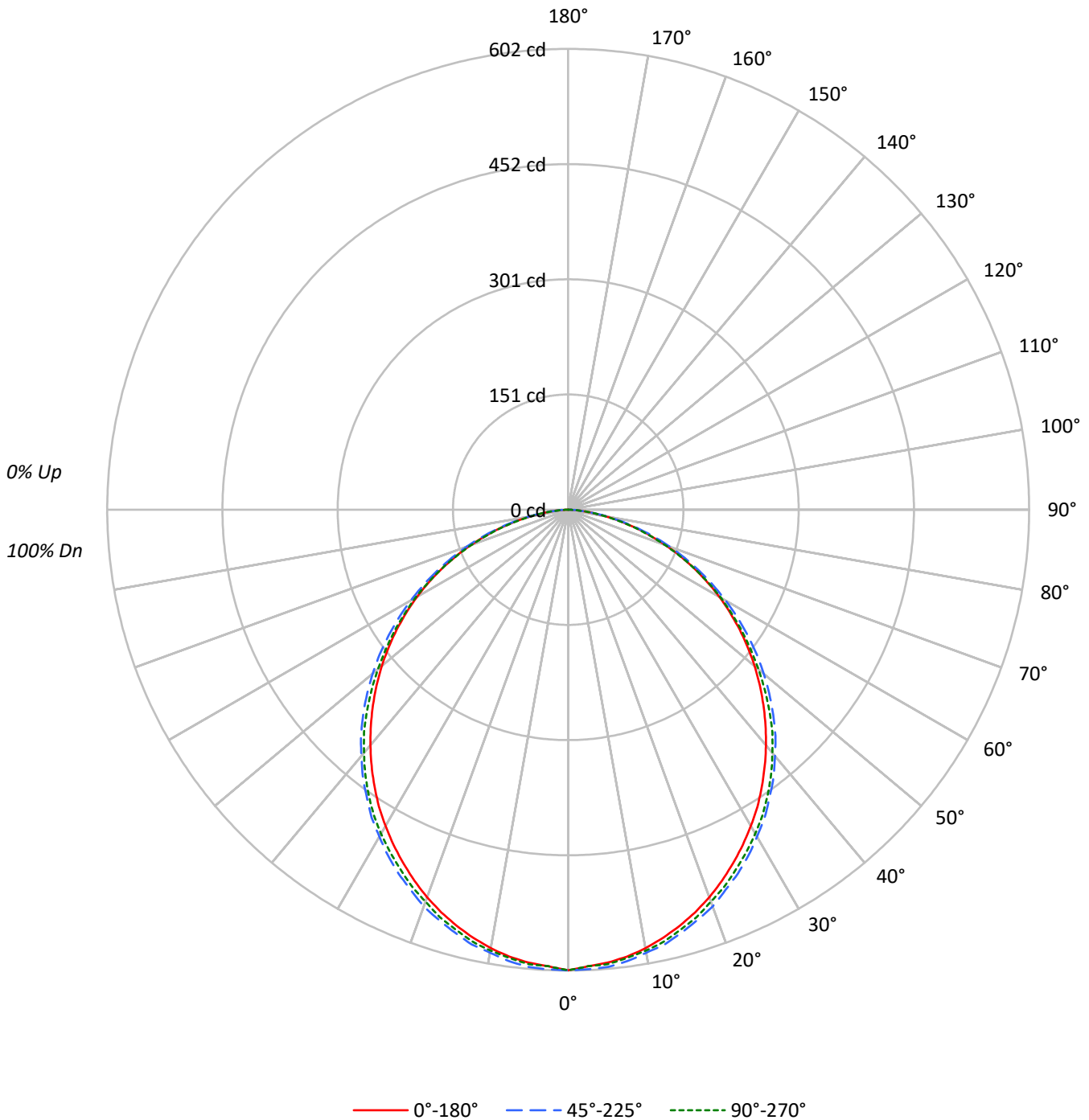
Lumens per Lamp: N/A
Luminaire Lumens: 1582.0 lumens
Efficiency: N/A
Efficacy: 67.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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°	3238	3238	3238
5°	3209	3239	3219
10°	3179	3211	3196
15°	3135	3186	3164
20°	3086	3159	3121
25°	3026	3113	3078
30°	2964	3065	3037
35°	2898	3012	2985
40°	2822	2952	2915
45°	2743	2882	2828
50°	2661	2790	2716
55°	2564	2685	2602
60°	2455	2556	2478
65°	2314	2402	2315
70°	2129	2214	2105
75°	1876	1959	1847
80°	1525	1590	1506
85°	1062	1130	1105



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.7	3.6
10°-20°	160.6	10.2
20°-30°	239.5	15.1
30°-40°	283.8	17.9
40°-50°	287.2	18.2
50°-60°	250.8	15.9
60°-70°	183.3	11.6
70°-80°	97.5	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
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0°-30°	456.8	28.9
0°-40°	740.6	46.8
0°-60°	1278.6	80.8
0°-90°	1582.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1582.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	602	602	602	602	602	
5°	594	595	600	601	596	56
15°	563	566	572	575	568	159
25°	510	516	524	526	518	235
35°	441	448	458	462	454	276
45°	360	367	379	379	372	278
55°	273	279	286	282	277	244
65°	182	185	189	185	182	180
75°	90	92	94	91	89	96
85°	17	18	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°	601.7	601.7	601.7	601.7	601.7
2.5°	597.0	599.0	601.0	601.9	597.0
5°	593.9	595.0	599.5	600.9	595.8
7.5°	588.8	590.5	594.8	595.4	590.5
10°	581.7	584.7	587.6	590.8	584.8
12.5°	572.8	576.8	581.7	582.3	577.8
15°	562.7	566.4	571.8	575.2	567.8
17.5°	551.4	555.0	561.9	562.6	558.0
20°	538.8	543.3	551.6	553.0	544.9
22.5°	524.5	530.6	537.5	538.9	532.9
25°	509.5	515.8	524.3	526.3	518.3
27.5°	493.8	499.9	509.5	510.8	504.1
30°	477.0	482.7	493.2	495.5	488.7
32.5°	460.0	465.6	477.3	479.2	472.6
35°	441.1	447.9	458.5	461.7	454.3
37.5°	421.7	428.5	440.5	443.4	435.3
40°	401.7	408.4	420.2	422.6	414.9
42.5°	381.3	388.0	400.6	401.0	394.6
45°	360.4	366.8	378.6	378.9	371.5
47.5°	339.2	345.7	356.2	355.0	348.0
50°	317.8	323.9	333.2	330.8	324.4
52.5°	295.6	301.6	310.3	306.4	300.4
55°	273.3	278.8	286.1	281.9	277.3
57.5°	250.8	256.4	261.9	257.7	253.7
60°	228.1	233.0	237.5	233.3	230.2
62.5°	205.0	209.2	213.2	209.1	206.2
65°	181.7	185.4	188.6	184.9	181.8
67.5°	158.5	161.6	164.6	160.7	157.5
70°	135.3	138.0	140.7	136.7	133.8
72.5°	112.4	114.8	117.2	113.4	110.8
75°	90.2	92.2	94.2	90.8	88.8
77.5°	68.9	70.7	72.0	69.8	67.9
80°	49.2	50.5	51.3	50.4	48.6
82.5°	31.6	32.5	33.0	32.9	31.7
85°	17.2	17.5	18.3	18.5	17.9
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)