

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: P490016

Luminaire Tested: **CLP-12-2-INS-A19156-LD4-1HI-50-120-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: P490016
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-LD4-1HI-50-120-EDD-90
Description: 1X2 CLP LED LUMINAIRE WITH A19156 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

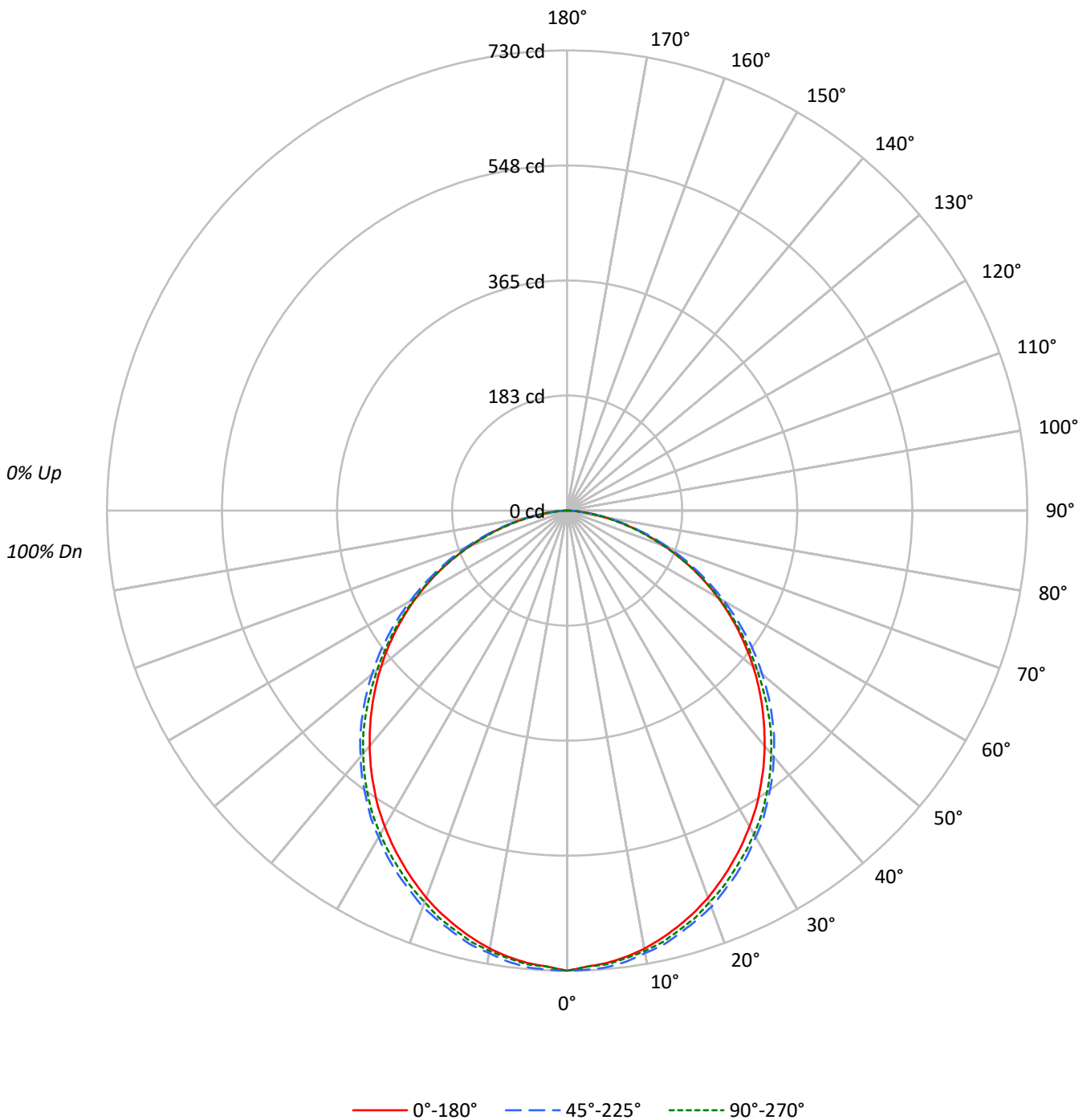
Lumens per Lamp: N/A
Luminaire Lumens: 1919.0 lumens
Efficiency: N/A
Efficacy: 88.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 21.6
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

TEST NUMBER: P490016

CATALOG NUMBER: CLP-12-2-INS-A19156-LD4-1HI-50-120-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P490016

CATALOG NUMBER: CLP-12-2-INS-A19156-LD4-1HI-50-120-EDD-90

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°	3928	3928	3928
5°	3892	3929	3904
10°	3857	3895	3877
15°	3803	3865	3837
20°	3743	3832	3786
25°	3670	3777	3733
30°	3596	3718	3684
35°	3515	3654	3621
40°	3424	3582	3536
45°	3328	3496	3430
50°	3228	3383	3296
55°	3111	3256	3156
60°	2978	3102	3006
65°	2807	2914	2808
70°	2582	2686	2554
75°	2275	2377	2240
80°	1847	1928	1826
85°	1284	1371	1340



TEST NUMBER: P490016

CATALOG NUMBER: CLP-12-2-INS-A19156-LD4-1HI-50-120-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.7	3.6
10°-20°	194.8	10.2
20°-30°	290.5	15.1
30°-40°	344.3	17.9
40°-50°	348.4	18.2
50°-60°	304.3	15.9
60°-70°	222.3	11.6
70°-80°	118.3	6.2
80°-90°	27.3	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°	554.1	28.9
0°-40°	898.4	46.8
0°-60°	1551.0	80.8
0°-90°	1919.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1919.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	730	730	730	730	730	
5°	720	722	727	729	723	68
15°	682	687	694	698	689	192
25°	618	626	636	638	629	285
35°	535	543	556	560	551	335
45°	437	445	459	460	451	337
55°	332	338	347	342	336	296
65°	220	225	229	224	220	218
75°	109	112	114	110	108	116
85°	21	21	22	22	22	26
90°	0	0	0	0	0	



TEST NUMBER: P490016

CATALOG NUMBER: CLP-12-2-INS-A19156-LD4-1HI-50-120-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	729.9	729.9	729.9	729.9	729.9
2.5°	724.2	726.6	729.0	730.1	724.1
5°	720.4	721.8	727.2	728.9	722.7
7.5°	714.2	716.2	721.5	722.2	716.3
10°	705.7	709.3	712.8	716.6	709.4
12.5°	694.8	699.7	705.7	706.3	700.9
15°	682.5	687.1	693.6	697.8	688.7
17.5°	668.9	673.3	681.6	682.4	676.9
20°	653.6	659.0	669.1	670.8	661.0
22.5°	636.2	643.6	652.0	653.6	646.4
25°	618.1	625.7	636.0	638.4	628.7
27.5°	599.0	606.3	618.0	619.6	611.5
30°	578.7	585.5	598.3	601.1	592.8
32.5°	558.0	564.8	579.0	581.3	573.3
35°	535.0	543.4	556.2	560.1	551.1
37.5°	511.6	519.7	534.3	537.8	528.1
40°	487.3	495.4	509.8	512.6	503.3
42.5°	462.5	470.6	486.0	486.4	478.7
45°	437.2	445.0	459.3	459.6	450.6
47.5°	411.5	419.3	432.1	430.7	422.1
50°	385.5	392.9	404.1	401.2	393.6
52.5°	358.6	365.8	376.4	371.7	364.4
55°	331.5	338.2	347.0	342.0	336.4
57.5°	304.2	311.0	317.7	312.6	307.8
60°	276.7	282.6	288.2	283.0	279.3
62.5°	248.7	253.8	258.6	253.6	250.1
65°	220.4	224.9	228.8	224.3	220.5
67.5°	192.3	196.1	199.7	195.0	191.1
70°	164.1	167.4	170.7	165.9	162.3
72.5°	136.4	139.2	142.2	137.5	134.4
75°	109.4	111.9	114.3	110.1	107.7
77.5°	83.6	85.7	87.4	84.7	82.4
80°	59.6	61.2	62.2	61.1	58.9
82.5°	38.3	39.5	40.0	39.9	38.5
85°	20.8	21.2	22.2	22.4	21.7
87.5°	8.1	8.6	8.8	9.5	8.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)