

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: P490015

Luminaire Tested: **CLP-12-2-INS-A19156-LD4-1HI-40-120-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: P490015
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-40-120-EDD
Description: 1X2 CLP LED LUMINAIRE WITH A19156 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

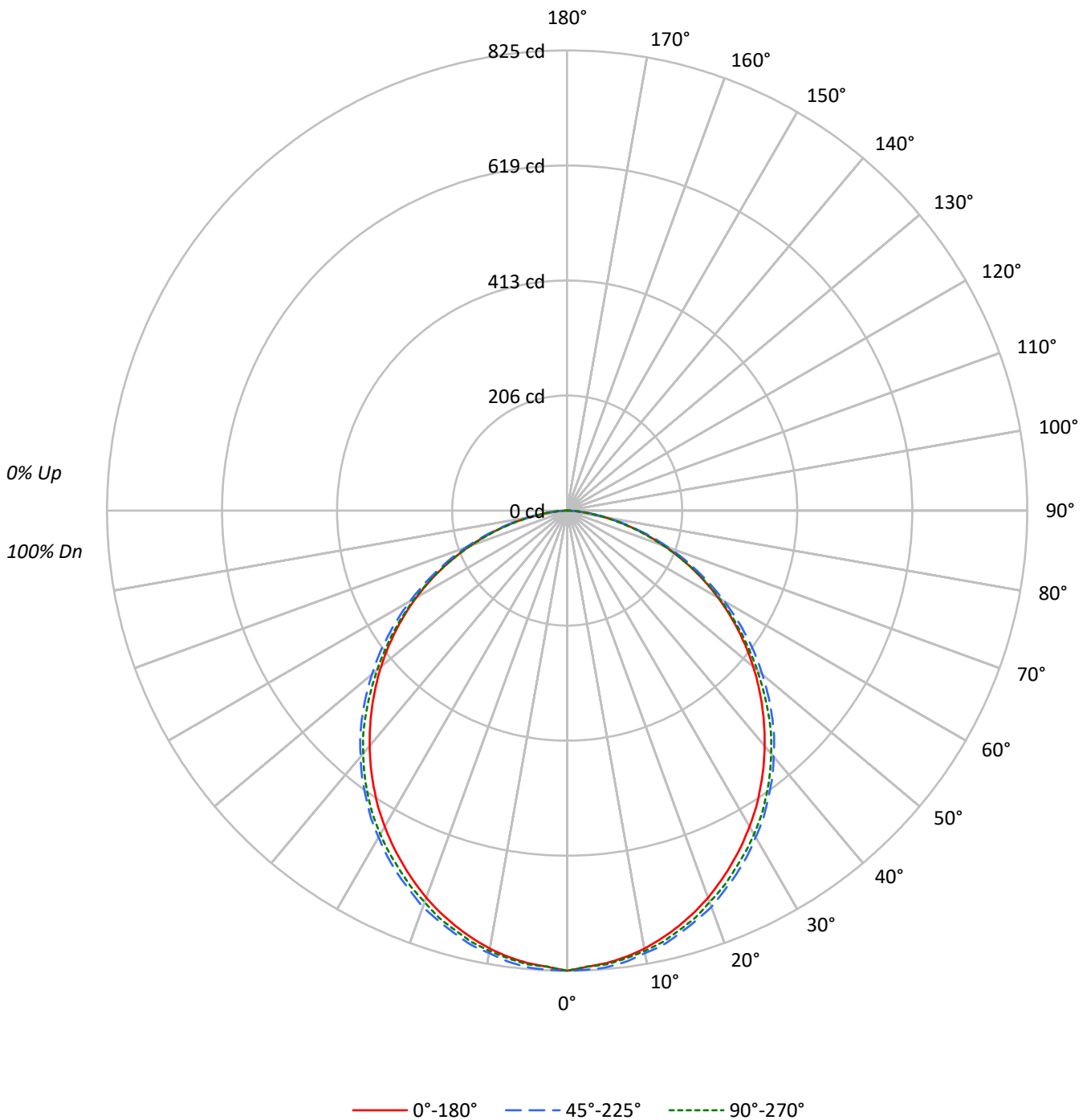
Lumens per Lamp: N/A
Luminaire Lumens: 2168.9 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 21.6
Input Voltage (V): NR
Input Current (A_{in}): 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: P490015

CATALOG NUMBER: CLP-12-2-INS-A19156-LD4-1HI-40-120-EDD

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°	4440	4440	4440
5°	4399	4440	4413
10°	4359	4403	4382
15°	4298	4368	4337
20°	4231	4331	4279
25°	4148	4268	4220
30°	4064	4202	4164
35°	3973	4131	4092
40°	3870	4047	3996
45°	3761	3951	3876
50°	3648	3825	3724
55°	3516	3680	3567
60°	3366	3506	3397
65°	3172	3293	3175
70°	2919	3037	2886
75°	2570	2687	2531
80°	2089	2179	2064
85°	1457	1550	1513



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.7	3.6
10°-20°	220.2	10.2
20°-30°	328.4	15.1
30°-40°	389.1	17.9
40°-50°	393.7	18.2
50°-60°	343.9	15.9
60°-70°	251.3	11.6
70°-80°	133.7	6.2
80°-90°	30.9	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°	626.3	28.9
0°-40°	1015.4	46.8
0°-60°	1753.0	80.8
0°-90°	2168.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2168.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	825	825	825	825	825	
5°	814	816	822	824	817	77
15°	771	777	784	789	778	217
25°	698	707	719	722	711	322
35°	605	614	629	633	623	378
45°	494	503	519	520	509	381
55°	375	382	392	386	380	335
65°	249	254	259	254	249	247
75°	124	126	129	124	122	131
85°	24	24	25	25	24	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	825.0	825.0	825.0	825.0	825.0
2.5°	818.5	821.2	823.9	825.1	818.4
5°	814.2	815.8	821.9	823.8	816.8
7.5°	807.2	809.5	815.4	816.3	809.6
10°	797.6	801.7	805.6	809.9	801.8
12.5°	785.3	790.8	797.6	798.3	792.1
15°	771.4	776.6	783.9	788.6	778.4
17.5°	756.0	760.9	770.4	771.3	765.1
20°	738.7	744.9	756.2	758.2	747.1
22.5°	719.1	727.4	736.9	738.8	730.6
25°	698.5	707.1	718.8	721.5	710.6
27.5°	677.0	685.3	698.5	700.3	691.1
30°	654.0	661.7	676.2	679.4	670.0
32.5°	630.6	638.4	654.4	657.0	647.9
35°	604.7	614.1	628.7	633.0	622.8
37.5°	578.2	587.4	603.9	607.9	596.9
40°	550.8	559.9	576.1	579.4	568.8
42.5°	522.8	531.9	549.2	549.8	541.0
45°	494.1	502.9	519.1	519.5	509.3
47.5°	465.1	473.9	488.4	486.7	477.1
50°	435.7	444.1	456.8	453.5	444.8
52.5°	405.3	413.4	425.4	420.1	411.9
55°	374.7	382.2	392.2	386.5	380.2
57.5°	343.8	351.5	359.1	353.4	347.8
60°	312.7	319.4	325.7	319.8	315.6
62.5°	281.1	286.8	292.2	286.7	282.7
65°	249.1	254.2	258.6	253.5	249.3
67.5°	217.3	221.6	225.7	220.4	216.0
70°	185.5	189.2	193.0	187.5	183.4
72.5°	154.1	157.4	160.7	155.4	151.9
75°	123.6	126.4	129.2	124.5	121.7
77.5°	94.5	96.9	98.8	95.8	93.1
80°	67.4	69.2	70.3	69.1	66.6
82.5°	43.3	44.6	45.2	45.1	43.5
85°	23.6	24.0	25.1	25.4	24.5
87.5°	9.1	9.7	10.0	10.7	9.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)