

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: P490030

Luminaire Tested: **CLP-12-2-INS-A19156-LD4-1STD-20-120-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: P490030
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-20-120-EDD-90
Description: 1X2 CLP LED LUMINAIRE WITH A19156 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

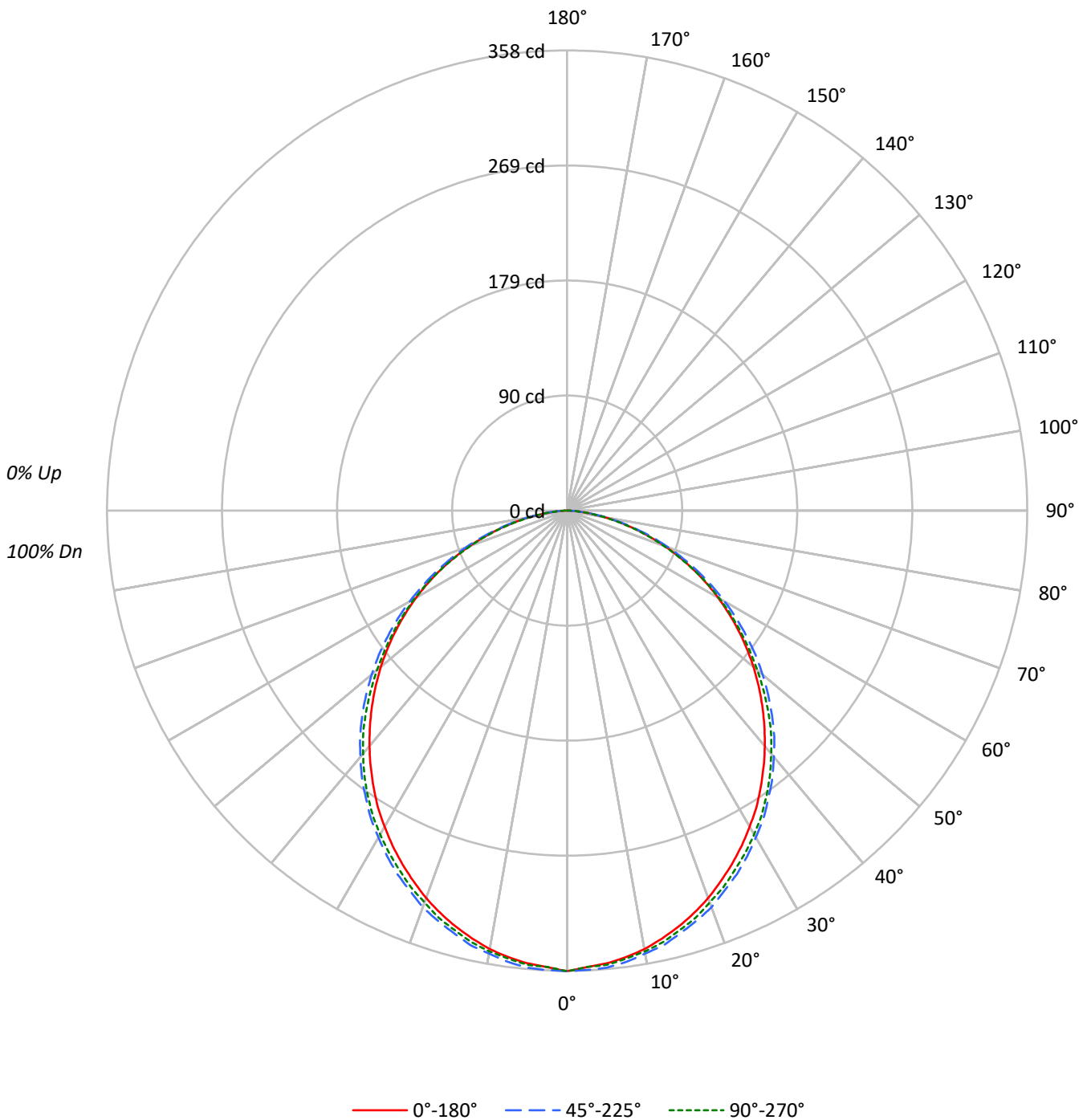
Lumens per Lamp: N/A
Luminaire Lumens: 941.9 lumens
Efficiency: N/A
Efficacy: 56.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 16.6
Input Voltage (V): NR
Input Current (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: P490030

CATALOG NUMBER: CLP-12-2-INS-A19156-LD4-1STD-20-120-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P490030

CATALOG NUMBER: CLP-12-2-INS-A19156-LD4-1STD-20-120-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°	1928	1928	1928
5°	1910	1928	1916
10°	1893	1912	1903
15°	1867	1897	1883
20°	1837	1881	1858
25°	1802	1854	1833
30°	1765	1825	1808
35°	1725	1794	1777
40°	1681	1758	1735
45°	1633	1716	1684
50°	1584	1661	1618
55°	1527	1598	1549
60°	1462	1522	1476
65°	1378	1430	1378
70°	1268	1319	1254
75°	1117	1167	1100
80°	908	945	896
85°	630	673	655



TEST NUMBER: P490030

CATALOG NUMBER: CLP-12-2-INS-A19156-LD4-1STD-20-120-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.7	3.6
10°-20°	95.6	10.2
20°-30°	142.6	15.1
30°-40°	169.0	17.9
40°-50°	171.0	18.2
50°-60°	149.3	15.9
60°-70°	109.1	11.6
70°-80°	58.1	6.2
80°-90°	13.4	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°	272.0	28.9
0°-40°	441.0	46.8
0°-60°	761.3	80.8
0°-90°	941.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	941.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	358	358	358	358	358	
5°	354	354	357	358	355	34
15°	335	337	340	342	338	94
25°	303	307	312	313	309	140
35°	263	267	273	275	270	164
45°	215	218	225	226	221	166
55°	163	166	170	168	165	145
65°	108	110	112	110	108	107
75°	54	55	56	54	53	57
85°	10	10	11	11	11	13
90°	0	0	0	0	0	



TEST NUMBER: P490030

CATALOG NUMBER: CLP-12-2-INS-A19156-LD4-1STD-20-120-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	358.3	358.3	358.3	358.3	358.3
2.5°	355.5	356.6	357.8	358.3	355.4
5°	353.6	354.3	356.9	357.7	354.7
7.5°	350.5	351.5	354.1	354.5	351.6
10°	346.4	348.1	349.9	351.7	348.2
12.5°	341.0	343.4	346.4	346.7	344.0
15°	335.0	337.3	340.4	342.5	338.0
17.5°	328.3	330.5	334.6	334.9	332.2
20°	320.8	323.5	328.4	329.3	324.4
22.5°	312.3	315.9	320.0	320.8	317.3
25°	303.4	307.1	312.2	313.3	308.6
27.5°	294.0	297.6	303.3	304.1	300.1
30°	284.0	287.4	293.7	295.0	291.0
32.5°	273.9	277.2	284.2	285.3	281.4
35°	262.6	266.7	273.0	274.9	270.5
37.5°	251.1	255.1	262.3	264.0	259.2
40°	239.2	243.1	250.2	251.6	247.0
42.5°	227.0	231.0	238.5	238.7	234.9
45°	214.6	218.4	225.4	225.6	221.2
47.5°	202.0	205.8	212.1	211.4	207.2
50°	189.2	192.9	198.4	196.9	193.2
52.5°	176.0	179.5	184.7	182.4	178.9
55°	162.7	166.0	170.3	167.9	165.1
57.5°	149.3	152.6	156.0	153.5	151.1
60°	135.8	138.7	141.4	138.9	137.1
62.5°	122.1	124.6	126.9	124.5	122.8
65°	108.2	110.4	112.3	110.1	108.2
67.5°	94.4	96.2	98.0	95.7	93.8
70°	80.6	82.2	83.8	81.4	79.7
72.5°	66.9	68.3	69.8	67.5	66.0
75°	53.7	54.9	56.1	54.0	52.9
77.5°	41.0	42.1	42.9	41.6	40.4
80°	29.3	30.0	30.5	30.0	28.9
82.5°	18.8	19.4	19.6	19.6	18.9
85°	10.2	10.4	10.9	11.0	10.6
87.5°	4.0	4.2	4.3	4.7	4.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)