

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: P490023

Luminaire Tested: **CLP-12-2-INS-A19156-LD4-1LO-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: P490023
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-LD4-1LO-30-120-EDD
Description: 1X2 CLP LED LUMINAIRE WITH A19156 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

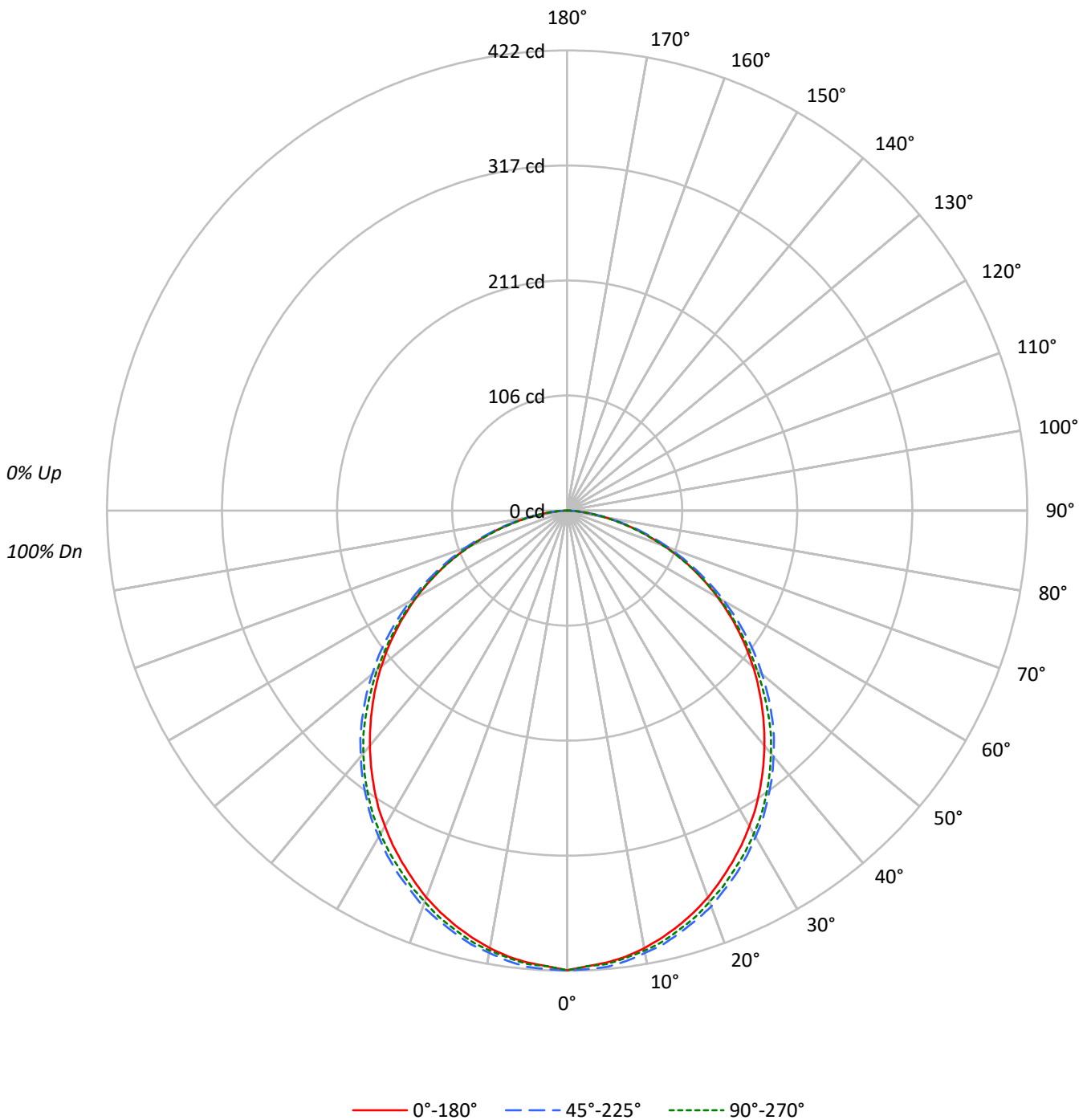
Lumens per Lamp: N/A
Luminaire Lumens: 1108.3 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
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: P490023

CATALOG NUMBER: CLP-12-2-INS-A19156-LD4-1LO-30-120-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°	2269	2269	2269
5°	2248	2269	2255
10°	2227	2250	2239
15°	2196	2232	2216
20°	2162	2213	2187
25°	2119	2181	2156
30°	2077	2147	2128
35°	2030	2110	2091
40°	1977	2068	2042
45°	1922	2019	1980
50°	1864	1954	1903
55°	1797	1880	1823
60°	1720	1791	1736
65°	1621	1684	1622
70°	1492	1552	1474
75°	1314	1372	1293
80°	1066	1113	1054
85°	741	790	772



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.7	3.6
10°-20°	112.5	10.2
20°-30°	167.8	15.1
30°-40°	198.8	17.9
40°-50°	201.2	18.2
50°-60°	175.7	15.9
60°-70°	128.4	11.6
70°-80°	68.3	6.2
80°-90°	15.8	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°	320.0	28.9
0°-40°	518.9	46.8
0°-60°	895.8	80.8
0°-90°	1108.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1108.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	422	422	422	422	422	
5°	416	417	420	421	417	39
15°	394	397	401	403	398	111
25°	357	361	367	369	363	164
35°	309	314	321	324	318	193
45°	252	257	265	266	260	195
55°	192	195	200	198	194	171
65°	127	130	132	130	127	126
75°	63	65	66	64	62	67
85°	12	12	13	13	12	15
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	421.6	421.6	421.6	421.6	421.6
2.5°	418.3	419.6	421.0	421.6	418.2
5°	416.1	416.9	420.0	420.9	417.4
7.5°	412.5	413.7	416.7	417.1	413.7
10°	407.5	409.7	411.7	413.9	409.7
12.5°	401.3	404.1	407.5	407.9	404.8
15°	394.2	396.8	400.6	403.0	397.8
17.5°	386.3	388.8	393.7	394.1	390.9
20°	377.5	380.6	386.4	387.4	381.8
22.5°	367.4	371.7	376.5	377.5	373.3
25°	356.9	361.3	367.3	368.7	363.1
27.5°	346.0	350.2	356.9	357.9	353.2
30°	334.2	338.2	345.5	347.2	342.4
32.5°	322.3	326.2	334.4	335.7	331.1
35°	309.0	313.8	321.2	323.5	318.3
37.5°	295.5	300.2	308.6	310.6	305.0
40°	281.4	286.1	294.4	296.1	290.7
42.5°	267.1	271.8	280.7	280.9	276.4
45°	252.5	257.0	265.2	265.5	260.2
47.5°	237.7	242.2	249.6	248.7	243.8
50°	222.6	226.9	233.4	231.7	227.3
52.5°	207.1	211.3	217.4	214.6	210.5
55°	191.5	195.3	200.4	197.5	194.3
57.5°	175.7	179.6	183.5	180.6	177.8
60°	159.8	163.2	166.4	163.4	161.3
62.5°	143.6	146.6	149.3	146.5	144.5
65°	127.3	129.9	132.2	129.5	127.4
67.5°	111.0	113.2	115.3	112.6	110.4
70°	94.8	96.7	98.6	95.8	93.7
72.5°	78.8	80.4	82.1	79.4	77.6
75°	63.2	64.6	66.0	63.6	62.2
77.5°	48.3	49.5	50.5	48.9	47.6
80°	34.4	35.4	35.9	35.3	34.0
82.5°	22.1	22.8	23.1	23.1	22.2
85°	12.0	12.3	12.8	13.0	12.5
87.5°	4.7	5.0	5.1	5.5	5.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)