

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: P490019

Luminaire Tested: **CLP-12-2-INS-A19156-LD4-1LO-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: P490019
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-20-120-EDD
Description: 1X2 CLP LED LUMINAIRE WITH A19156 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

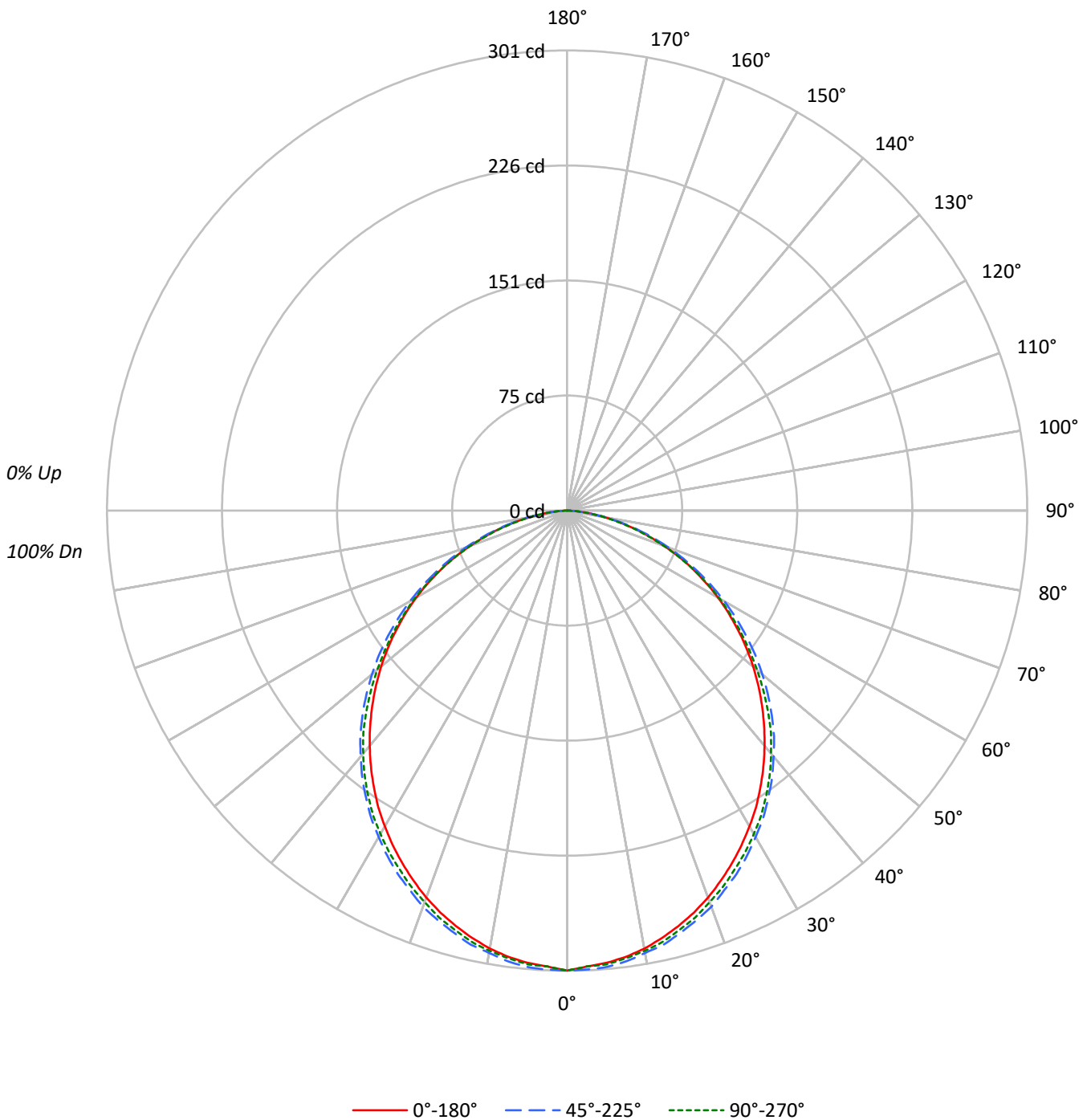
Lumens per Lamp: N/A
Luminaire Lumens: 791.0 lumens
Efficiency: N/A
Efficacy: 67.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
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

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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°	1619	1619	1619
5°	1604	1619	1609
10°	1590	1606	1598
15°	1567	1593	1582
20°	1543	1580	1561
25°	1513	1557	1539
30°	1482	1533	1518
35°	1449	1507	1492
40°	1411	1476	1458
45°	1372	1441	1413
50°	1330	1395	1358
55°	1282	1342	1301
60°	1227	1279	1239
65°	1156	1201	1158
70°	1064	1108	1053
75°	938	979	923
80°	762	793	753
85°	531	568	550



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.3	3.6
10°-20°	80.3	10.2
20°-30°	119.8	15.1
30°-40°	141.9	17.9
40°-50°	143.6	18.2
50°-60°	125.4	15.9
60°-70°	91.6	11.6
70°-80°	48.8	6.2
80°-90°	11.3	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°	228.4	28.9
0°-40°	370.3	46.8
0°-60°	639.3	80.8
0°-90°	791.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	791.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	301	301	301	301	301	
5°	297	298	300	300	298	28
15°	281	283	286	288	284	79
25°	255	258	262	263	259	117
35°	220	224	229	231	227	138
45°	180	183	189	190	186	139
55°	137	139	143	141	139	122
65°	91	93	94	92	91	90
75°	45	46	47	45	44	48
85°	9	9	9	9	9	11
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	300.9	300.9	300.9	300.9	300.9
2.5°	298.5	299.5	300.5	300.9	298.5
5°	296.9	297.5	299.7	300.4	297.9
7.5°	294.4	295.2	297.4	297.7	295.3
10°	290.9	292.4	293.8	295.4	292.4
12.5°	286.4	288.4	290.9	291.2	288.9
15°	281.3	283.2	285.9	287.6	283.9
17.5°	275.7	277.5	281.0	281.3	279.0
20°	269.4	271.7	275.8	276.5	272.5
22.5°	262.2	265.3	268.7	269.4	266.4
25°	254.8	257.9	262.2	263.1	259.1
27.5°	246.9	249.9	254.7	255.4	252.1
30°	238.5	241.3	246.6	247.8	244.3
32.5°	230.0	232.8	238.6	239.6	236.3
35°	220.5	224.0	229.3	230.9	227.1
37.5°	210.9	214.2	220.2	221.7	217.7
40°	200.9	204.2	210.1	211.3	207.5
42.5°	190.7	194.0	200.3	200.5	197.3
45°	180.2	183.4	189.3	189.5	185.7
47.5°	169.6	172.8	178.1	177.5	174.0
50°	158.9	162.0	166.6	165.4	162.2
52.5°	147.8	150.8	155.1	153.2	150.2
55°	136.6	139.4	143.0	141.0	138.6
57.5°	125.4	128.2	131.0	128.9	126.9
60°	114.0	116.5	118.8	116.6	115.1
62.5°	102.5	104.6	106.6	104.5	103.1
65°	90.8	92.7	94.3	92.4	90.9
67.5°	79.2	80.8	82.3	80.4	78.8
70°	67.6	69.0	70.4	68.4	66.9
72.5°	56.2	57.4	58.6	56.7	55.4
75°	45.1	46.1	47.1	45.4	44.4
77.5°	34.5	35.3	36.0	34.9	33.9
80°	24.6	25.2	25.6	25.2	24.3
82.5°	15.8	16.3	16.5	16.5	15.9
85°	8.6	8.7	9.2	9.2	8.9
87.5°	3.3	3.5	3.6	3.9	3.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)