

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: P490007

Luminaire Tested: **CLP-12-2-INS-A19156-LD4-1HI-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: P490007
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-20-120-EDD
Description: 1X2 CLP LED LUMINAIRE WITH A19156 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

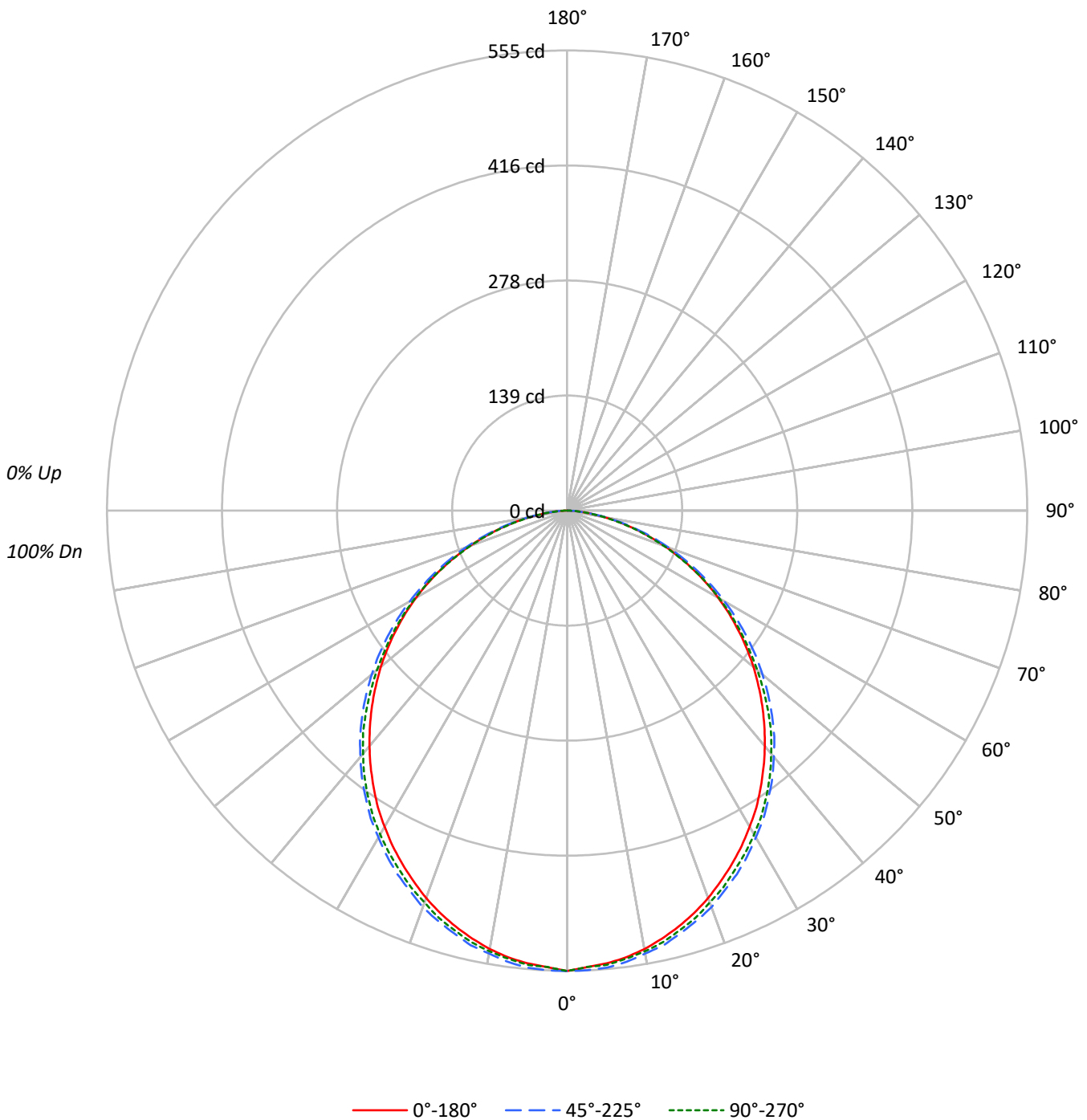
Lumens per Lamp: N/A
Luminaire Lumens: 1460.3 lumens
Efficiency: N/A
Efficacy: 67.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P490007

CATALOG NUMBER: CLP-12-2-INS-A19156-LD4-1HI-20-120-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°	2989	2989	2989
5°	2962	2990	2971
10°	2935	2964	2950
15°	2894	2941	2920
20°	2848	2916	2881
25°	2793	2874	2841
30°	2736	2829	2803
35°	2675	2781	2755
40°	2605	2725	2691
45°	2532	2660	2610
50°	2456	2575	2508
55°	2367	2478	2402
60°	2266	2361	2287
65°	2136	2217	2137
70°	1965	2044	1943
75°	1730	1809	1703
80°	1407	1466	1392
85°	982	1044	1019



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.3	3.6
10°-20°	148.2	10.2
20°-30°	221.1	15.1
30°-40°	262.0	17.9
40°-50°	265.1	18.2
50°-60°	231.5	15.9
60°-70°	169.2	11.6
70°-80°	90.0	6.2
80°-90°	20.8	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°	421.6	28.9
0°-40°	683.6	46.8
0°-60°	1180.3	80.8
0°-90°	1460.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1460.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	555	555	555	555	555	
5°	548	549	553	555	550	52
15°	519	523	528	531	524	146
25°	470	476	484	486	478	217
35°	407	414	423	426	419	255
45°	333	339	350	350	343	257
55°	252	257	264	260	256	226
65°	168	171	174	171	168	166
75°	83	85	87	84	82	88
85°	16	16	17	17	16	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	555.4	555.4	555.4	555.4	555.4
2.5°	551.1	552.9	554.8	555.6	551.0
5°	548.2	549.3	553.4	554.6	549.9
7.5°	543.5	545.0	549.0	549.6	545.1
10°	537.0	539.8	542.4	545.3	539.8
12.5°	528.7	532.5	537.0	537.5	533.3
15°	519.4	522.9	527.8	531.0	524.1
17.5°	509.0	512.3	518.7	519.3	515.1
20°	497.3	501.5	509.1	510.5	503.0
22.5°	484.1	489.8	496.1	497.4	491.9
25°	470.3	476.1	484.0	485.8	478.4
27.5°	455.9	461.4	470.3	471.5	465.3
30°	440.3	445.5	455.3	457.4	451.1
32.5°	424.6	429.8	440.6	442.4	436.2
35°	407.1	413.5	423.3	426.2	419.3
37.5°	389.3	395.5	406.6	409.3	401.9
40°	370.8	377.0	387.9	390.1	383.0
42.5°	352.0	358.1	369.8	370.1	364.2
45°	332.7	338.6	349.5	349.8	342.9
47.5°	313.1	319.1	328.8	327.7	321.2
50°	293.3	299.0	307.5	305.3	299.5
52.5°	272.9	278.4	286.4	282.8	277.3
55°	252.3	257.4	264.1	260.2	256.0
57.5°	231.5	236.6	241.8	237.9	234.2
60°	210.5	215.0	219.3	215.3	212.5
62.5°	189.2	193.1	196.8	193.0	190.3
65°	167.7	171.1	174.1	170.7	167.8
67.5°	146.3	149.2	152.0	148.4	145.4
70°	124.9	127.4	129.9	126.2	123.5
72.5°	103.8	106.0	108.2	104.6	102.3
75°	83.2	85.1	87.0	83.8	81.9
77.5°	63.6	65.2	66.5	64.5	62.7
80°	45.4	46.6	47.3	46.5	44.9
82.5°	29.2	30.0	30.4	30.4	29.3
85°	15.9	16.1	16.9	17.1	16.5
87.5°	6.1	6.5	6.7	7.2	6.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)