

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: P490008

Luminaire Tested: **CLP-12-2-INS-A19156-LD4-1HI-27-120-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: P490008
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-27-120-EDD-90
Description: 1X2 CLP LED LUMINAIRE WITH A19156 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

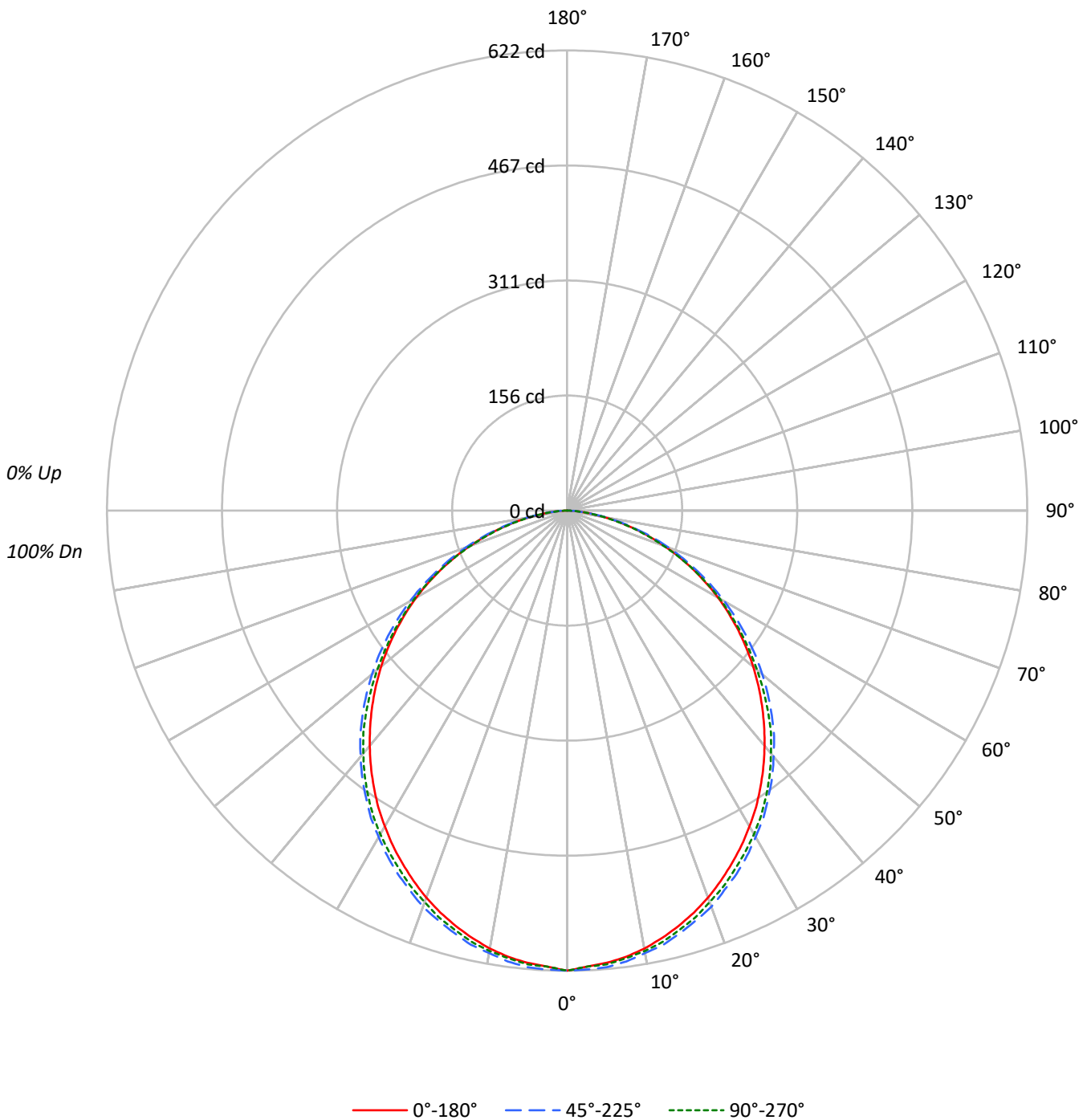
Lumens per Lamp: N/A
Luminaire Lumens: 1634.7 lumens
Efficiency: N/A
Efficacy: 75.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P490008

CATALOG NUMBER: CLP-12-2-INS-A19156-LD4-1HI-27-120-EDD-90

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°	3347	3347	3347
5°	3316	3346	3326
10°	3285	3318	3302
15°	3239	3292	3269
20°	3188	3265	3225
25°	3127	3217	3181
30°	3063	3167	3138
35°	2994	3113	3084
40°	2916	3051	3012
45°	2834	2978	2921
50°	2750	2883	2807
55°	2650	2774	2688
60°	2537	2643	2561
65°	2390	2482	2393
70°	2200	2288	2175
75°	1938	2025	1907
80°	1574	1643	1556
85°	1099	1167	1142



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.6	3.6
10°-20°	165.9	10.2
20°-30°	247.5	15.1
30°-40°	293.3	17.9
40°-50°	296.8	18.2
50°-60°	259.2	15.9
60°-70°	189.4	11.6
70°-80°	100.8	6.2
80°-90°	23.3	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°	472.0	28.9
0°-40°	765.3	46.8
0°-60°	1321.2	80.8
0°-90°	1634.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1634.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	622	622	622	622	622	
5°	614	615	619	621	616	58
15°	581	585	591	594	587	164
25°	526	533	542	544	536	243
35°	456	463	474	477	469	285
45°	372	379	391	392	384	287
55°	282	288	296	291	286	252
65°	188	192	195	191	188	186
75°	93	95	97	94	92	99
85°	18	18	19	19	18	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	621.8	621.8	621.8	621.8	621.8
2.5°	616.9	618.9	621.0	621.9	616.9
5°	613.7	614.8	619.4	620.9	615.6
7.5°	608.4	610.1	614.6	615.2	610.2
10°	601.1	604.2	607.2	610.4	604.3
12.5°	591.9	596.1	601.1	601.7	597.0
15°	581.4	585.3	590.8	594.4	586.7
17.5°	569.8	573.5	580.6	581.3	576.6
20°	556.7	561.4	570.0	571.4	563.1
22.5°	542.0	548.3	555.4	556.8	550.7
25°	526.5	533.0	541.8	543.8	535.6
27.5°	510.3	516.5	526.4	527.8	520.9
30°	492.9	498.8	509.6	512.0	505.0
32.5°	475.3	481.1	493.2	495.2	488.3
35°	455.7	462.9	473.8	477.1	469.4
37.5°	435.8	442.7	455.2	458.1	449.8
40°	415.1	422.0	434.2	436.7	428.7
42.5°	394.0	400.9	414.0	414.3	407.7
45°	372.4	379.0	391.2	391.5	383.8
47.5°	350.5	357.2	368.1	366.9	359.6
50°	328.4	334.7	344.3	341.8	335.2
52.5°	305.4	311.6	320.6	316.6	310.4
55°	282.4	288.1	295.6	291.3	286.5
57.5°	259.1	264.9	270.7	266.3	262.2
60°	235.7	240.7	245.5	241.1	237.9
62.5°	211.8	216.2	220.3	216.0	213.1
65°	187.7	191.6	194.9	191.0	187.9
67.5°	163.8	167.0	170.1	166.1	162.8
70°	139.8	142.6	145.4	141.3	138.2
72.5°	116.2	118.6	121.1	117.1	114.5
75°	93.2	95.3	97.4	93.8	91.7
77.5°	71.2	73.0	74.4	72.2	70.2
80°	50.8	52.1	53.0	52.1	50.2
82.5°	32.7	33.6	34.1	34.0	32.8
85°	17.8	18.1	18.9	19.1	18.5
87.5°	6.9	7.3	7.5	8.1	7.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)