

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: P490057

Luminaire Tested: **CLP-12-2-INS-A19156-LD4-2LO-27-120-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: P490057  
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-LD4-2LO-27-120-EDD  
Description: 1X2 CLP LED LUMINAIRE WITH A19156 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

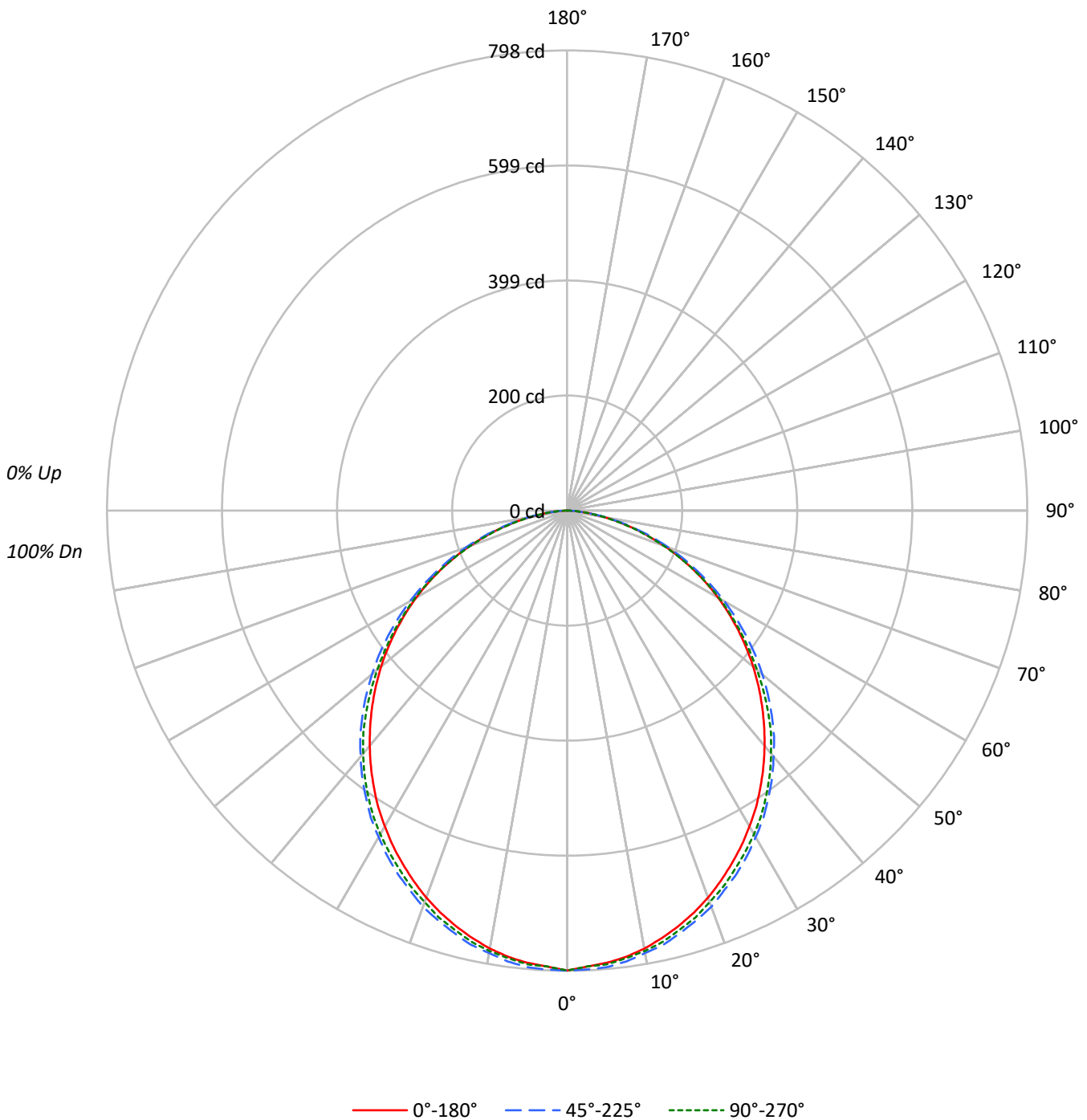
Lumens per Lamp: N/A  
Luminaire Lumens: 2097.3 lumens  
Efficiency: N/A  
Efficacy: 89.6 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 23.4  
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: P490057

CATALOG NUMBER: CLP-12-2-INS-A19156-LD4-2LO-27-120-EDD

### Luminous Intensity Polar Plot





TEST NUMBER: P490057

CATALOG NUMBER: CLP-12-2-INS-A19156-LD4-2LO-27-120-EDD

**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°	4293	4293	4293
5°	4253	4293	4267
10°	4215	4257	4237
15°	4157	4223	4194
20°	4091	4188	4137
25°	4011	4128	4080
30°	3930	4064	4026
35°	3842	3994	3957
40°	3742	3914	3865
45°	3637	3820	3749
50°	3527	3698	3601
55°	3400	3559	3449
60°	3255	3390	3285
65°	3068	3185	3069
70°	2823	2936	2792
75°	2485	2597	2447
80°	2021	2108	1996
85°	1408	1501	1463



TEST NUMBER: P490057

CATALOG NUMBER: CLP-12-2-INS-A19156-LD4-2LO-27-120-EDD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.1	3.6
10°-20°	212.9	10.2
20°-30°	317.5	15.1
30°-40°	376.3	17.9
40°-50°	380.7	18.2
50°-60°	332.5	15.9
60°-70°	243.0	11.6
70°-80°	129.3	6.2
80°-90°	29.9	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°	605.6	28.9
0°-40°	981.9	46.8
0°-60°	1695.1	80.8
0°-90°	2097.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2097.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	798	798	798	798	798	
5°	787	789	795	797	790	75
15°	746	751	758	763	753	210
25°	676	684	695	698	687	311
35°	585	594	608	612	602	366
45°	478	486	502	502	492	369
55°	362	370	379	374	368	324
65°	241	246	250	245	241	238
75°	120	122	125	120	118	127
85°	23	23	24	24	24	29
90°	0	0	0	0	0	



TEST NUMBER: P490057

CATALOG NUMBER: CLP-12-2-INS-A19156-LD4-2LO-27-120-EDD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	797.7	797.7	797.7	797.7	797.7
2.5°	791.5	794.1	796.7	797.9	791.4
5°	787.3	788.8	794.7	796.6	789.8
7.5°	780.5	782.8	788.5	789.3	782.9
10°	771.2	775.2	779.0	783.2	775.3
12.5°	759.3	764.7	771.2	772.0	766.0
15°	746.0	750.9	758.0	762.6	752.7
17.5°	731.0	735.8	745.0	745.8	739.8
20°	714.3	720.3	731.2	733.2	722.4
22.5°	695.3	703.4	712.5	714.4	706.5
25°	675.5	683.8	695.1	697.7	687.1
27.5°	654.7	662.7	675.4	677.2	668.3
30°	632.4	639.9	653.9	656.9	647.9
32.5°	609.8	617.3	632.8	635.3	626.5
35°	584.7	593.9	607.9	612.1	602.3
37.5°	559.1	568.0	584.0	587.8	577.2
40°	532.6	541.4	557.1	560.3	550.1
42.5°	505.5	514.3	531.1	531.6	523.1
45°	477.8	486.3	501.9	502.3	492.5
47.5°	449.7	458.3	472.3	470.7	461.4
50°	421.3	429.5	441.7	438.5	430.1
52.5°	391.9	399.8	411.3	406.2	398.3
55°	362.3	369.6	379.3	373.8	367.6
57.5°	332.5	339.9	347.3	341.7	336.4
60°	302.4	308.9	314.9	309.3	305.2
62.5°	271.8	277.4	282.6	277.2	273.4
65°	240.9	245.8	250.1	245.1	241.0
67.5°	210.1	214.3	218.3	213.1	208.9
70°	179.4	182.9	186.6	181.3	177.4
72.5°	149.0	152.2	155.4	150.3	146.9
75°	119.5	122.3	124.9	120.4	117.7
77.5°	91.3	93.7	95.5	92.6	90.0
80°	65.2	66.9	68.0	66.8	64.4
82.5°	41.9	43.1	43.7	43.6	42.1
85°	22.8	23.2	24.3	24.5	23.7
87.5°	8.8	9.4	9.6	10.4	9.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)