

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: P490064

Luminaire Tested: **CLP-12-2-INS-A19156-LD4-2LO-50-120-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: P490064
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-50-120-EDD-90
Description: 1X2 CLP LED LUMINAIRE WITH A19156 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

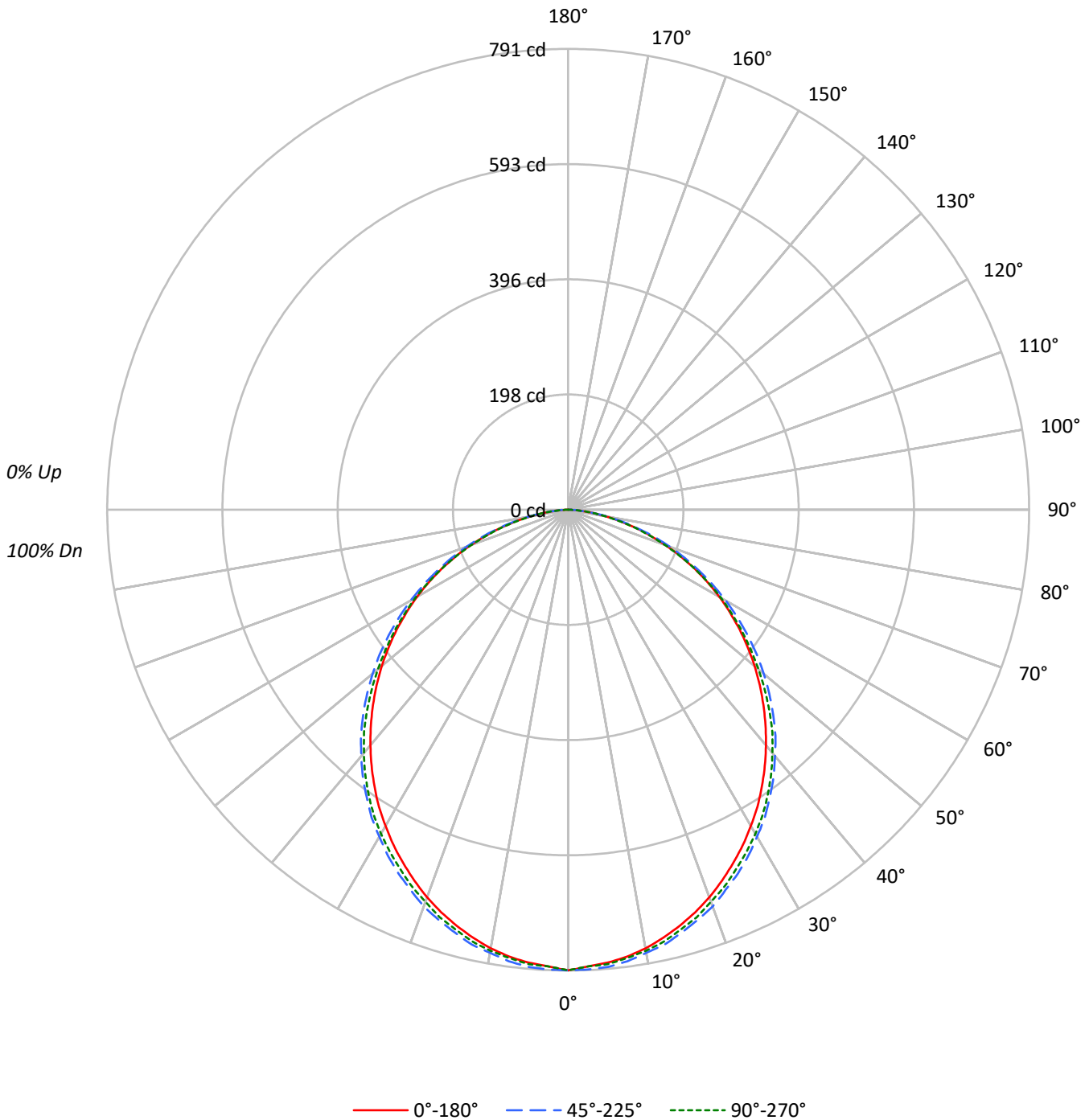
Lumens per Lamp: N/A
Luminaire Lumens: 2078.9 lumens
Efficiency: N/A
Efficacy: 88.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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: P490064

CATALOG NUMBER: CLP-12-2-INS-A19156-LD4-2LO-50-120-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P490064

CATALOG NUMBER: CLP-12-2-INS-A19156-LD4-2LO-50-120-EDD-90

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°	4256	4256	4256
5°	4216	4256	4230
10°	4178	4220	4200
15°	4120	4187	4157
20°	4055	4151	4101
25°	3976	4092	4045
30°	3896	4028	3991
35°	3808	3959	3922
40°	3709	3880	3830
45°	3605	3787	3715
50°	3496	3666	3569
55°	3369	3527	3419
60°	3226	3360	3256
65°	3041	3157	3042
70°	2798	2911	2766
75°	2464	2574	2427
80°	2002	2089	1977
85°	1396	1488	1451



TEST NUMBER: P490064

CATALOG NUMBER: CLP-12-2-INS-A19156-LD4-2LO-50-120-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.5	3.6
10°-20°	211.0	10.2
20°-30°	314.8	15.1
30°-40°	373.0	17.9
40°-50°	377.4	18.2
50°-60°	329.6	15.9
60°-70°	240.9	11.6
70°-80°	128.2	6.2
80°-90°	29.6	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°	600.3	28.9
0°-40°	973.2	46.8
0°-60°	1680.3	80.8
0°-90°	2078.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2078.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	791	791	791	791	791	
5°	780	782	788	790	783	74
15°	739	744	751	756	746	208
25°	670	678	689	692	681	308
35°	580	589	603	607	597	362
45°	474	482	498	498	488	365
55°	359	366	376	370	364	321
65°	239	244	248	243	239	236
75°	118	121	124	119	117	126
85°	23	23	24	24	24	29
90°	0	0	0	0	0	



TEST NUMBER: P490064

CATALOG NUMBER: CLP-12-2-INS-A19156-LD4-2LO-50-120-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	790.7	790.7	790.7	790.7	790.7
2.5°	784.6	787.1	789.8	790.9	784.5
5°	780.4	781.9	787.8	789.6	782.9
7.5°	773.7	775.9	781.6	782.4	776.0
10°	764.5	768.4	772.2	776.3	768.5
12.5°	752.7	758.0	764.5	765.2	759.3
15°	739.4	744.4	751.4	755.9	746.1
17.5°	724.6	729.4	738.4	739.2	733.3
20°	708.0	714.0	724.8	726.7	716.1
22.5°	689.2	697.2	706.3	708.1	700.3
25°	669.5	677.8	689.0	691.5	681.1
27.5°	649.0	656.9	669.5	671.3	662.5
30°	626.9	634.3	648.1	651.2	642.2
32.5°	604.5	611.9	627.2	629.8	621.0
35°	579.6	588.6	602.6	606.8	597.0
37.5°	554.2	563.0	578.8	582.6	572.1
40°	527.9	536.7	552.2	555.4	545.2
42.5°	501.1	509.8	526.4	526.9	518.5
45°	473.6	482.0	497.5	497.9	488.1
47.5°	445.8	454.3	468.1	466.6	457.3
50°	417.6	425.7	437.8	434.7	426.3
52.5°	388.4	396.3	407.7	402.6	394.8
55°	359.1	366.4	375.9	370.5	364.4
57.5°	329.5	336.9	344.2	338.7	333.4
60°	299.7	306.1	312.2	306.6	302.5
62.5°	269.4	274.9	280.1	274.8	271.0
65°	238.8	243.6	247.9	243.0	238.9
67.5°	208.3	212.4	216.3	211.2	207.0
70°	177.8	181.3	185.0	179.7	175.8
72.5°	147.7	150.8	154.1	149.0	145.6
75°	118.5	121.2	123.8	119.3	116.7
77.5°	90.5	92.8	94.7	91.8	89.2
80°	64.6	66.3	67.4	66.2	63.8
82.5°	41.5	42.8	43.3	43.3	41.7
85°	22.6	23.0	24.1	24.3	23.5
87.5°	8.7	9.3	9.6	10.3	9.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)