

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: P490056

Luminaire Tested: **CLP-12-2-INS-A19156-LD4-2LO-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: P490056
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-90
Description: 1X2 CLP LED LUMINAIRE WITH A19156 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

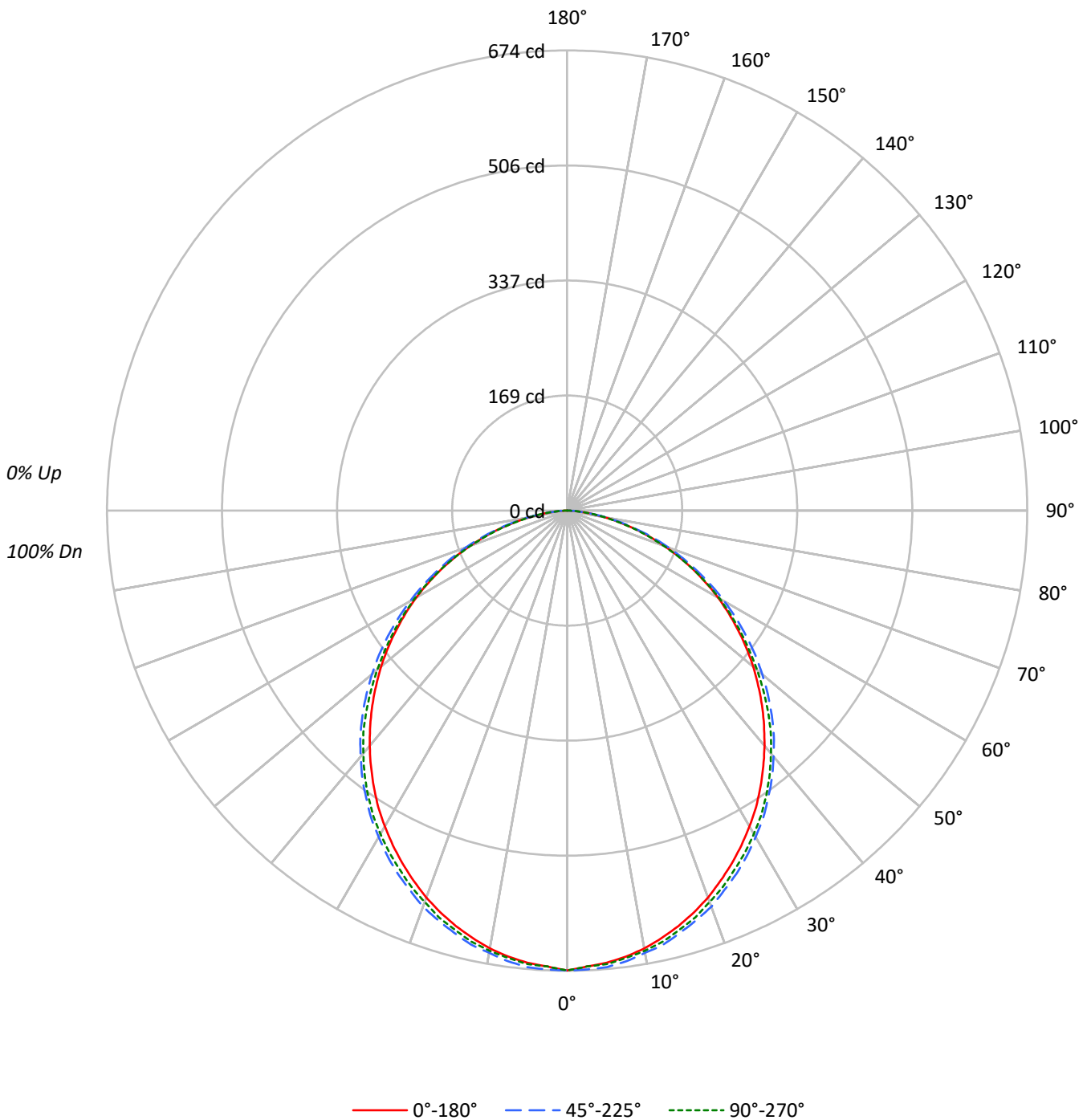
Lumens per Lamp: N/A
Luminaire Lumens: 1770.9 lumens
Efficiency: N/A
Efficacy: 75.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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CATALOG NUMBER: CLP-12-2-INS-A19156-LD4-2LO-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°	3625	3625	3625
5°	3592	3626	3603
10°	3559	3595	3577
15°	3510	3566	3541
20°	3454	3536	3494
25°	3387	3485	3445
30°	3319	3431	3400
35°	3244	3372	3341
40°	3159	3305	3263
45°	3071	3226	3165
50°	2978	3122	3041
55°	2870	3004	2913
60°	2748	2862	2774
65°	2590	2690	2592
70°	2382	2480	2357
75°	2098	2194	2067
80°	1705	1779	1686
85°	1186	1266	1235



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.4	3.6
10°-20°	179.8	10.2
20°-30°	268.1	15.1
30°-40°	317.7	17.9
40°-50°	321.5	18.2
50°-60°	280.8	15.9
60°-70°	205.2	11.6
70°-80°	109.2	6.2
80°-90°	25.2	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°	511.3	28.9
0°-40°	829.1	46.8
0°-60°	1431.3	80.8
0°-90°	1770.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1770.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	674	674	674	674	674	
5°	665	666	671	673	667	63
15°	630	634	640	644	636	178
25°	570	577	587	589	580	263
35°	494	501	513	517	508	309
45°	404	411	424	424	416	311
55°	306	312	320	316	310	273
65°	203	208	211	207	204	201
75°	101	103	106	102	99	107
85°	19	20	20	21	20	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	673.6	673.6	673.6	673.6	673.6
2.5°	668.3	670.5	672.7	673.7	668.3
5°	664.8	666.1	671.1	672.6	666.9
7.5°	659.1	661.0	665.8	666.5	661.0
10°	651.2	654.6	657.8	661.3	654.6
12.5°	641.2	645.7	651.2	651.8	646.8
15°	629.9	634.1	640.0	643.9	635.5
17.5°	617.2	621.3	629.0	629.7	624.7
20°	603.1	608.2	617.4	619.1	610.0
22.5°	587.1	593.9	601.7	603.2	596.5
25°	570.4	577.4	586.9	589.1	580.2
27.5°	552.8	559.5	570.3	571.8	564.3
30°	534.0	540.3	552.1	554.7	547.1
32.5°	514.9	521.2	534.3	536.5	529.0
35°	493.7	501.4	513.3	516.9	508.5
37.5°	472.1	479.6	493.1	496.3	487.3
40°	449.7	457.2	470.4	473.1	464.5
42.5°	426.8	434.3	448.4	448.9	441.7
45°	403.5	410.6	423.8	424.2	415.8
47.5°	379.7	387.0	398.8	397.4	389.6
50°	355.7	362.6	372.9	370.3	363.2
52.5°	330.9	337.6	347.3	343.0	336.3
55°	305.9	312.1	320.2	315.6	310.4
57.5°	280.7	287.0	293.2	288.5	284.0
60°	255.3	260.8	265.9	261.1	257.7
62.5°	229.5	234.2	238.6	234.1	230.8
65°	203.4	207.5	211.2	207.0	203.5
67.5°	177.4	180.9	184.3	179.9	176.4
70°	151.4	154.5	157.6	153.1	149.8
72.5°	125.8	128.5	131.2	126.9	124.0
75°	100.9	103.2	105.5	101.6	99.4
77.5°	77.1	79.1	80.6	78.2	76.0
80°	55.0	56.5	57.4	56.4	54.4
82.5°	35.4	36.4	36.9	36.8	35.5
85°	19.2	19.6	20.5	20.7	20.0
87.5°	7.4	7.9	8.1	8.8	8.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)