

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: P490010

Luminaire Tested: **CLP-12-2-INS-A19156-LD4-1HI-30-120-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: P490010  
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-30-120-EDD-90  
Description: 1X2 CLP LED LUMINAIRE WITH A19156 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

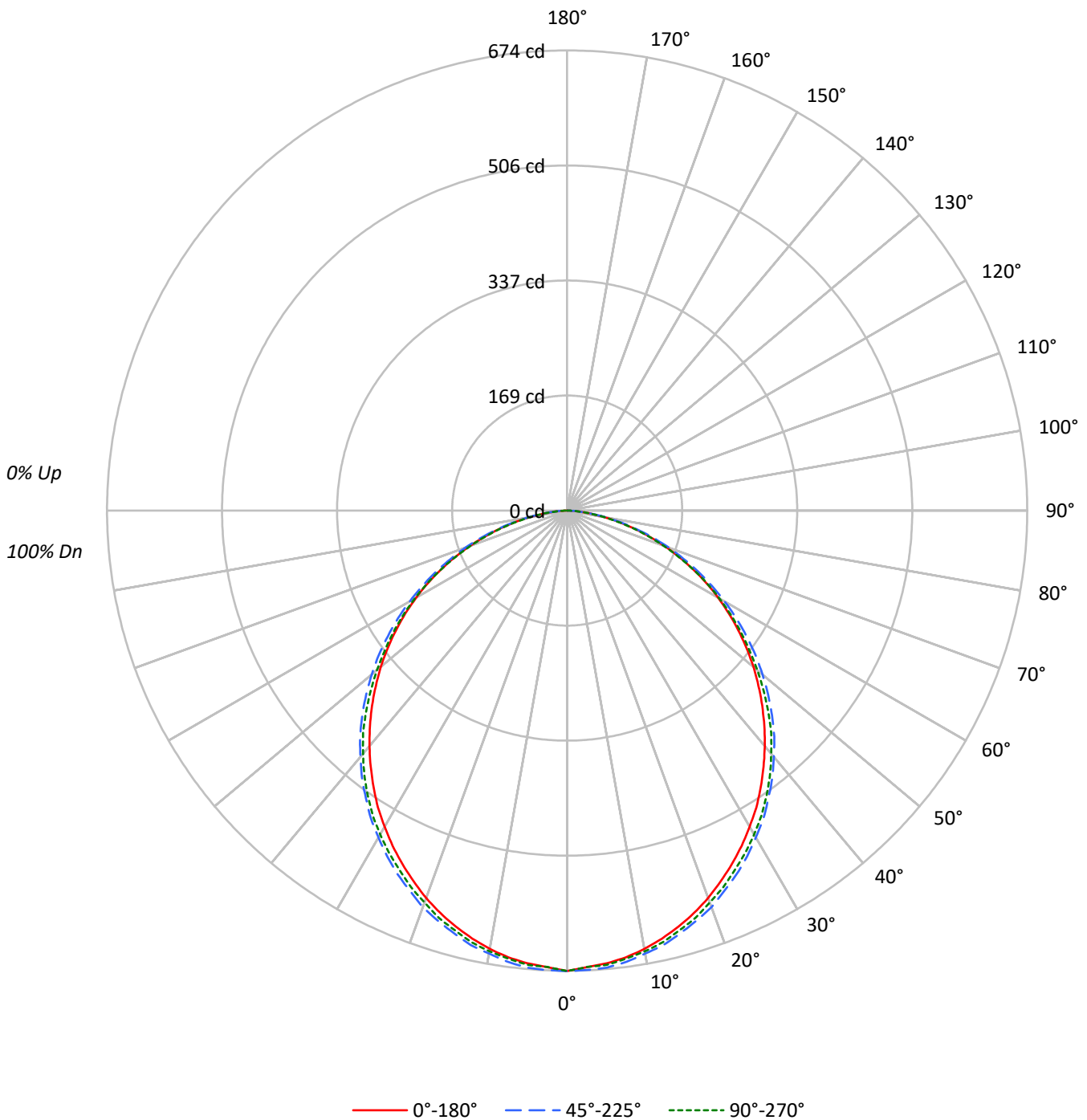
Lumens per Lamp: N/A  
Luminaire Lumens: 1773.2 lumens  
Efficiency: N/A  
Efficacy: 82.1 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

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

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### 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°	3630	3630	3630
5°	3596	3630	3608
10°	3563	3600	3582
15°	3514	3571	3546
20°	3459	3541	3498
25°	3391	3490	3450
30°	3323	3435	3404
35°	3248	3377	3346
40°	3164	3309	3268
45°	3075	3230	3169
50°	2982	3126	3045
55°	2874	3008	2916
60°	2751	2866	2777
65°	2593	2692	2595
70°	2386	2483	2360
75°	2100	2196	2069
80°	1708	1782	1689
85°	1192	1266	1235



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.5	3.6
10°-20°	180.0	10.2
20°-30°	268.5	15.1
30°-40°	318.1	17.9
40°-50°	321.9	18.2
50°-60°	281.1	15.9
60°-70°	205.4	11.6
70°-80°	109.3	6.2
80°-90°	25.3	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°	512.0	28.9
0°-40°	830.1	46.8
0°-60°	1433.2	80.8
0°-90°	1773.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1773.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	674	674	674	674	674	
5°	666	667	672	674	668	63
15°	631	635	641	645	636	178
25°	571	578	588	590	581	263
35°	494	502	514	518	509	309
45°	404	411	424	425	416	312
55°	306	312	321	316	311	274
65°	204	208	211	207	204	201
75°	101	103	106	102	100	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°	674.5	674.5	674.5	674.5	674.5
2.5°	669.2	671.4	673.6	674.6	669.1
5°	665.7	666.9	671.9	673.5	667.8
7.5°	659.9	661.8	666.7	667.4	661.9
10°	652.0	655.4	658.7	662.2	655.5
12.5°	642.0	646.6	652.0	652.7	647.6
15°	630.7	634.9	640.9	644.7	636.4
17.5°	618.0	622.1	629.8	630.5	625.5
20°	603.9	609.0	618.2	619.9	610.8
22.5°	587.9	594.7	602.4	604.0	597.3
25°	571.1	578.1	587.7	589.9	580.9
27.5°	553.5	560.3	571.0	572.6	565.1
30°	534.7	541.0	552.8	555.4	547.8
32.5°	515.6	521.9	535.0	537.2	529.7
35°	494.4	502.1	514.0	517.5	509.2
37.5°	472.7	480.2	493.7	497.0	488.0
40°	450.3	457.7	471.0	473.7	465.1
42.5°	427.4	434.8	449.0	449.5	442.3
45°	404.0	411.2	424.4	424.7	416.4
47.5°	380.2	387.5	399.3	397.9	390.1
50°	356.2	363.1	373.4	370.8	363.7
52.5°	331.3	338.0	347.8	343.4	336.7
55°	306.3	312.5	320.6	316.0	310.8
57.5°	281.1	287.3	293.6	288.9	284.4
60°	255.6	261.1	266.3	261.5	258.0
62.5°	229.8	234.5	238.9	234.4	231.1
65°	203.6	207.8	211.4	207.2	203.8
67.5°	177.6	181.2	184.5	180.2	176.6
70°	151.6	154.7	157.8	153.3	150.0
72.5°	126.0	128.7	131.4	127.1	124.2
75°	101.0	103.4	105.6	101.8	99.5
77.5°	77.2	79.2	80.7	78.3	76.1
80°	55.1	56.6	57.5	56.5	54.5
82.5°	35.4	36.5	37.0	36.9	35.6
85°	19.3	19.6	20.5	20.7	20.0
87.5°	7.4	7.9	8.2	8.8	8.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)