

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: P490032

Luminaire Tested: **CLP-12-2-INS-A19156-LD4-1STD-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: P490032  
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-LD4-1STD-27-120-EDD-90  
Description: 1X2 CLP LED LUMINAIRE WITH A19156 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

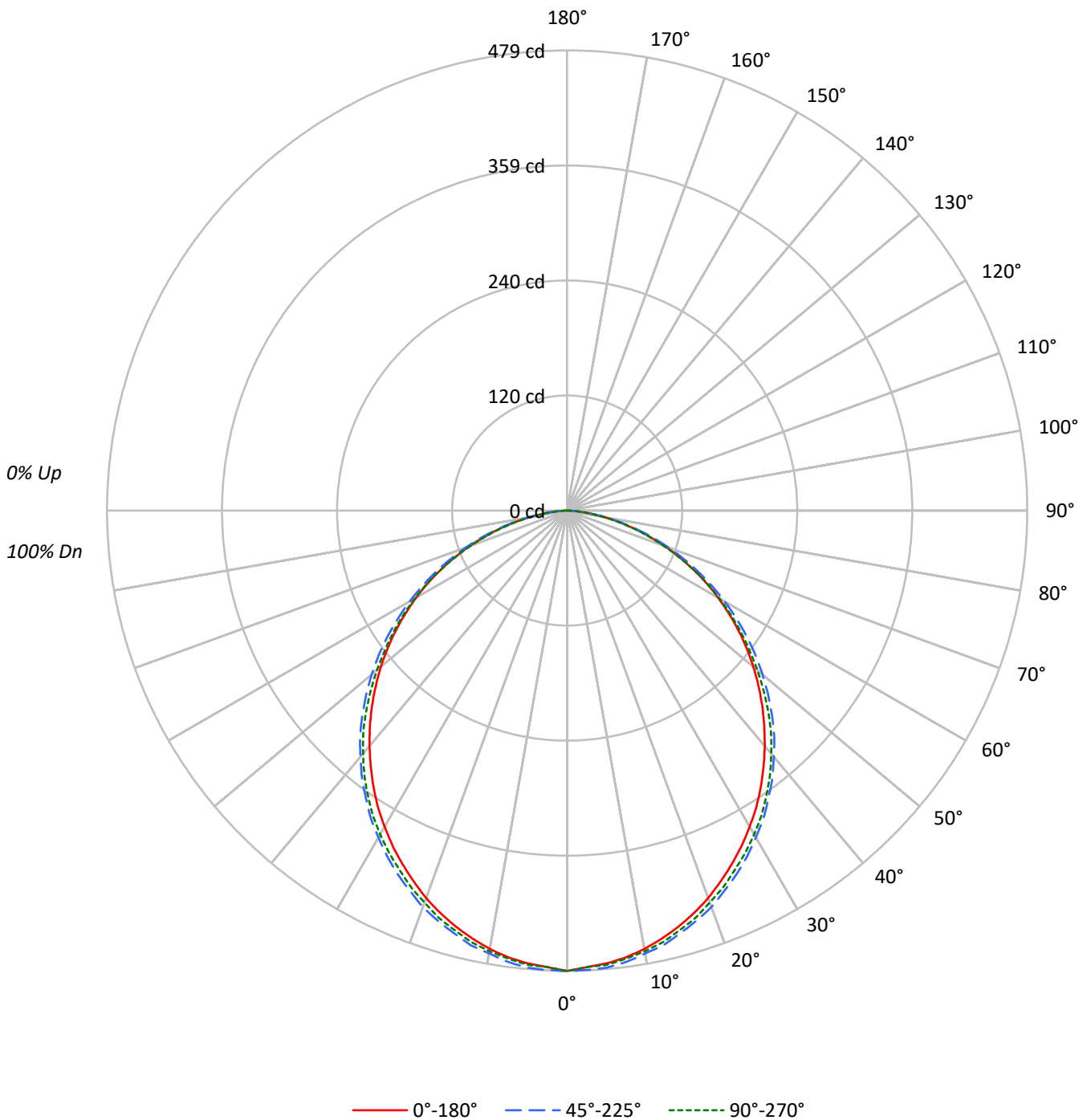
Lumens per Lamp: N/A  
Luminaire Lumens: 1260.1 lumens  
Efficiency: N/A  
Efficacy: 75.9 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 16.6  
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°	2580	2580	2580
5°	2556	2580	2564
10°	2532	2558	2546
15°	2497	2537	2520
20°	2458	2516	2486
25°	2410	2480	2451
30°	2362	2442	2419
35°	2308	2399	2377
40°	2248	2351	2322
45°	2185	2296	2252
50°	2119	2222	2164
55°	2043	2138	2073
60°	1956	2037	1974
65°	1843	1914	1844
70°	1696	1764	1677
75°	1493	1562	1470
80°	1215	1265	1199
85°	846	902	877



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	45.1	3.6
10°-20°	127.9	10.2
20°-30°	190.8	15.1
30°-40°	226.1	17.9
40°-50°	228.8	18.2
50°-60°	199.8	15.9
60°-70°	146.0	11.6
70°-80°	77.7	6.2
80°-90°	17.9	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°	363.8	28.9
0°-40°	589.9	46.8
0°-60°	1018.5	80.8
0°-90°	1260.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1260.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	479	479	479	479	479	
5°	473	474	478	479	475	45
15°	448	451	455	458	452	126
25°	406	411	418	419	413	187
35°	351	357	365	368	362	220
45°	287	292	302	302	296	221
55°	218	222	228	225	221	195
65°	145	148	150	147	145	143
75°	72	74	75	72	71	76
85°	14	14	15	15	14	17
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	479.3	479.3	479.3	479.3	479.3
2.5°	475.6	477.1	478.7	479.4	475.5
5°	473.1	474.0	477.5	478.6	474.6
7.5°	469.0	470.3	473.8	474.3	470.4
10°	463.4	465.8	468.1	470.6	465.8
12.5°	456.2	459.5	463.4	463.8	460.2
15°	448.2	451.2	455.4	458.2	452.2
17.5°	439.2	442.1	447.6	448.1	444.5
20°	429.2	432.8	439.3	440.5	434.1
22.5°	417.8	422.6	428.1	429.2	424.5
25°	405.8	410.8	417.6	419.2	412.8
27.5°	393.4	398.1	405.8	406.9	401.5
30°	380.0	384.5	392.9	394.7	389.3
32.5°	366.4	370.9	380.2	381.7	376.4
35°	351.3	356.8	365.2	367.8	361.8
37.5°	335.9	341.3	350.9	353.2	346.8
40°	320.0	325.3	334.7	336.6	330.5
42.5°	303.7	309.0	319.1	319.4	314.3
45°	287.1	292.2	301.6	301.8	295.9
47.5°	270.2	275.4	283.7	282.8	277.2
50°	253.1	258.0	265.4	263.5	258.4
52.5°	235.5	240.2	247.1	244.0	239.3
55°	217.7	222.1	227.9	224.6	220.9
57.5°	199.7	204.2	208.6	205.3	202.1
60°	181.7	185.6	189.2	185.8	183.4
62.5°	163.3	166.6	169.8	166.5	164.2
65°	144.7	147.7	150.3	147.3	144.8
67.5°	126.2	128.7	131.1	128.0	125.5
70°	107.8	109.9	112.1	108.9	106.6
72.5°	89.5	91.4	93.4	90.3	88.2
75°	71.8	73.5	75.1	72.3	70.7
77.5°	54.9	56.3	57.4	55.6	54.1
80°	39.2	40.2	40.8	40.1	38.7
82.5°	25.2	25.9	26.3	26.2	25.3
85°	13.7	13.9	14.6	14.7	14.2
87.5°	5.3	5.6	5.8	6.2	5.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)