

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: P490026

Luminaire Tested: **CLP-12-2-INS-A19156-LD4-1LO-40-120-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: P490026  
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-LD4-1LO-40-120-EDD-90  
Description: 1X2 CLP LED LUMINAIRE WITH A19156 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

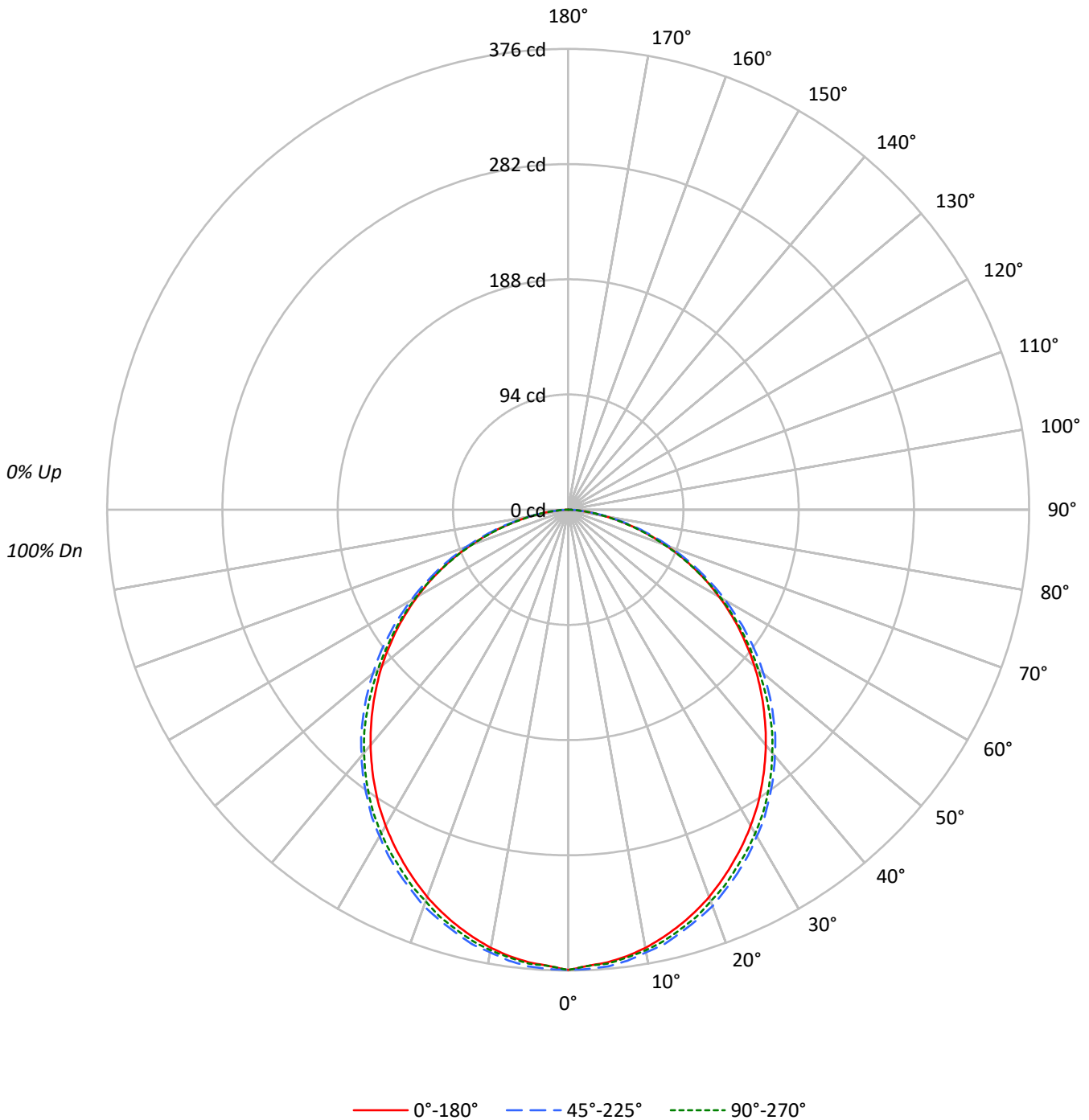
Lumens per Lamp: N/A  
Luminaire Lumens: 987.1 lumens  
Efficiency: N/A  
Efficacy: 84.4 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 11.7  
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°	2021	2021	2021
5°	2002	2021	2008
10°	1984	2004	1994
15°	1956	1988	1974
20°	1926	1971	1947
25°	1888	1942	1920
30°	1850	1912	1895
35°	1808	1880	1863
40°	1761	1842	1819
45°	1712	1798	1764
50°	1660	1741	1695
55°	1600	1675	1623
60°	1532	1595	1546
65°	1444	1499	1444
70°	1328	1382	1314
75°	1171	1223	1152
80°	951	992	939
85°	661	704	685



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	35.4	3.6
10°-20°	100.2	10.2
20°-30°	149.5	15.1
30°-40°	177.1	17.9
40°-50°	179.2	18.2
50°-60°	156.5	15.9
60°-70°	114.4	11.6
70°-80°	60.8	6.2
80°-90°	14.1	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°	285.0	28.9
0°-40°	462.1	46.8
0°-60°	797.8	80.8
0°-90°	987.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	987.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	376	376	376	376	376	
5°	371	371	374	375	372	35
15°	351	353	357	359	354	99
25°	318	322	327	328	323	146
35°	275	280	286	288	284	172
45°	225	229	236	236	232	174
55°	170	174	178	176	173	152
65°	113	116	118	115	113	112
75°	56	58	59	57	55	60
85°	11	11	11	12	11	14
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	375.5	375.5	375.5	375.5	375.5
2.5°	372.5	373.7	375.0	375.5	372.5
5°	370.6	371.3	374.0	374.9	371.7
7.5°	367.4	368.4	371.1	371.5	368.5
10°	363.0	364.9	366.7	368.6	364.9
12.5°	357.4	359.9	363.0	363.3	360.5
15°	351.1	353.4	356.8	358.9	354.3
17.5°	344.0	346.3	350.6	351.0	348.2
20°	336.2	339.0	344.2	345.1	340.0
22.5°	327.3	331.1	335.4	336.2	332.5
25°	317.9	321.8	327.1	328.4	323.4
27.5°	308.1	311.9	317.9	318.7	314.6
30°	297.7	301.2	307.7	309.2	304.9
32.5°	287.0	290.5	297.8	299.0	294.9
35°	275.2	279.5	286.1	288.1	283.5
37.5°	263.1	267.3	274.8	276.6	271.6
40°	250.7	254.8	262.2	263.7	258.9
42.5°	237.9	242.1	250.0	250.2	246.2
45°	224.9	228.9	236.2	236.4	231.8
47.5°	211.7	215.7	222.3	221.5	217.1
50°	198.3	202.1	207.9	206.4	202.4
52.5°	184.4	188.2	193.6	191.2	187.5
55°	170.5	174.0	178.5	175.9	173.0
57.5°	156.5	160.0	163.4	160.8	158.3
60°	142.3	145.4	148.2	145.6	143.6
62.5°	127.9	130.5	133.0	130.5	128.7
65°	113.4	115.7	117.7	115.4	113.4
67.5°	98.9	100.8	102.7	100.3	98.3
70°	84.4	86.1	87.8	85.3	83.5
72.5°	70.1	71.6	73.2	70.7	69.1
75°	56.3	57.5	58.8	56.6	55.4
77.5°	43.0	44.1	44.9	43.6	42.4
80°	30.7	31.5	32.0	31.5	30.3
82.5°	19.7	20.3	20.6	20.5	19.8
85°	10.7	10.9	11.4	11.5	11.1
87.5°	4.1	4.4	4.5	4.9	4.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)