

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: P490021

Luminaire Tested: **CLP-12-2-INS-A19156-LD4-1LO-27-120-EDD**

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: P490021
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-27-120-EDD
Description: 1X2 CLP LED LUMINAIRE WITH A19156 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

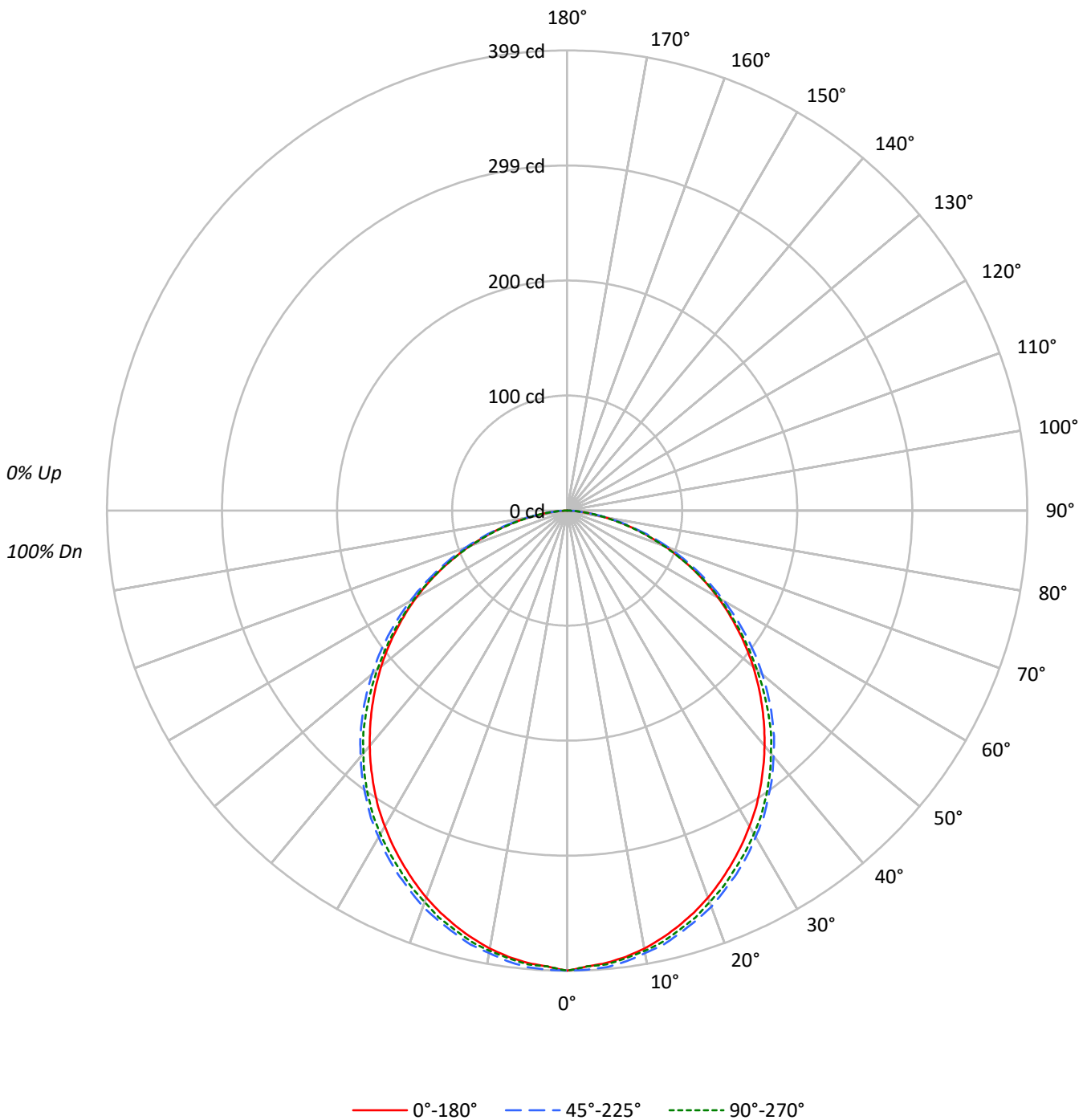
Lumens per Lamp: N/A
Luminaire Lumens: 1048.6 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	2147	2147	2147
5°	2127	2147	2133
10°	2107	2129	2118
15°	2078	2112	2097
20°	2045	2094	2069
25°	2005	2064	2040
30°	1965	2032	2013
35°	1920	1997	1978
40°	1871	1957	1932
45°	1818	1910	1874
50°	1763	1849	1800
55°	1699	1779	1725
60°	1628	1695	1643
65°	1533	1592	1535
70°	1412	1468	1396
75°	1243	1300	1223
80°	1010	1054	998
85°	704	747	729



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.6	3.6
10°-20°	106.5	10.2
20°-30°	158.8	15.1
30°-40°	188.1	17.9
40°-50°	190.4	18.2
50°-60°	166.2	15.9
60°-70°	121.5	11.6
70°-80°	64.6	6.2
80°-90°	14.9	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°	302.8	28.9
0°-40°	490.9	46.8
0°-60°	847.5	80.8
0°-90°	1048.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1048.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	399	399	399	399	399	
5°	394	394	397	398	395	37
15°	373	376	379	381	376	105
25°	338	342	348	349	344	156
35°	292	297	304	306	301	183
45°	239	243	251	251	246	184
55°	181	185	190	187	184	162
65°	120	123	125	122	120	119
75°	60	61	62	60	59	64
85°	11	12	12	12	12	14
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	398.9	398.9	398.9	398.9	398.9
2.5°	395.7	397.0	398.4	398.9	395.7
5°	393.7	394.4	397.4	398.3	394.9
7.5°	390.2	391.4	394.2	394.7	391.4
10°	385.6	387.6	389.5	391.6	387.6
12.5°	379.7	382.4	385.6	386.0	383.0
15°	373.0	375.5	379.0	381.3	376.3
17.5°	365.5	367.9	372.5	372.9	369.9
20°	357.1	360.1	365.6	366.6	361.2
22.5°	347.7	351.7	356.3	357.2	353.2
25°	337.7	341.9	347.5	348.8	343.5
27.5°	327.3	331.3	337.7	338.6	334.1
30°	316.2	319.9	326.9	328.5	323.9
32.5°	304.9	308.6	316.4	317.7	313.2
35°	292.3	296.9	303.9	306.1	301.1
37.5°	279.5	284.0	292.0	293.9	288.6
40°	266.3	270.7	278.5	280.1	275.0
42.5°	252.7	257.1	265.5	265.8	261.6
45°	238.9	243.1	251.0	251.2	246.2
47.5°	224.9	229.1	236.1	235.3	230.7
50°	210.6	214.7	220.8	219.2	215.0
52.5°	195.9	199.9	205.7	203.1	199.1
55°	181.1	184.8	189.6	186.9	183.8
57.5°	166.2	169.9	173.6	170.8	168.2
60°	151.2	154.4	157.5	154.6	152.6
62.5°	135.9	138.7	141.3	138.6	136.7
65°	120.4	122.9	125.0	122.5	120.5
67.5°	105.1	107.1	109.1	106.5	104.4
70°	89.7	91.5	93.3	90.6	88.7
72.5°	74.5	76.1	77.7	75.1	73.4
75°	59.8	61.1	62.5	60.2	58.8
77.5°	45.7	46.8	47.7	46.3	45.0
80°	32.6	33.5	34.0	33.4	32.2
82.5°	20.9	21.6	21.9	21.8	21.0
85°	11.4	11.6	12.1	12.3	11.8
87.5°	4.4	4.7	4.8	5.2	4.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)