

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: P490022

Luminaire Tested: **CLP-12-2-INS-A19156-LD4-1LO-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: P490022
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-30-120-EDD-90
Description: 1X2 CLP LED LUMINAIRE WITH A19156 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

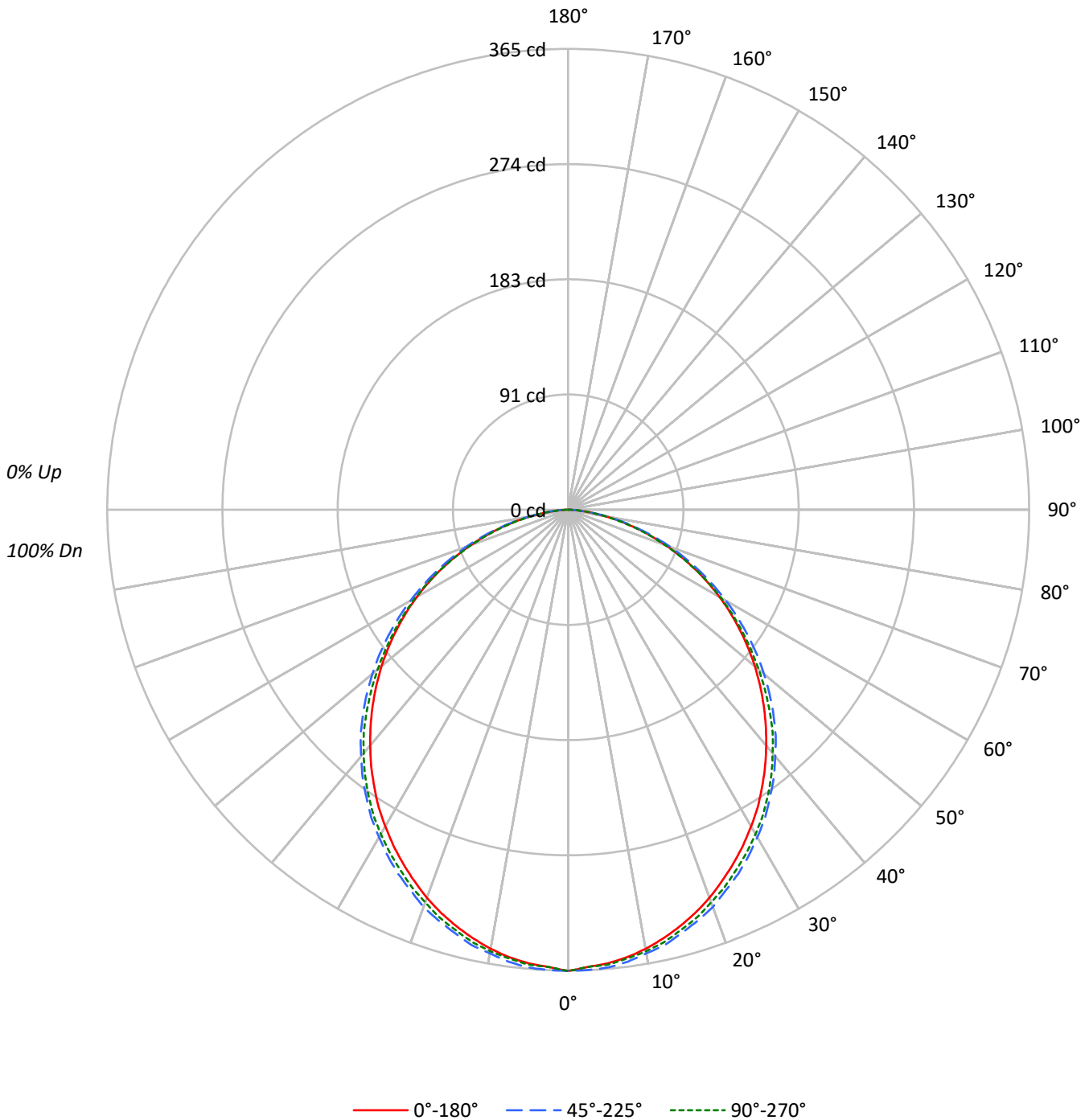
Lumens per Lamp: N/A
Luminaire Lumens: 960.5 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	1966	1966	1966
5°	1948	1967	1954
10°	1930	1950	1941
15°	1903	1934	1921
20°	1873	1918	1895
25°	1837	1890	1869
30°	1800	1861	1844
35°	1759	1829	1812
40°	1714	1792	1770
45°	1665	1750	1716
50°	1615	1694	1649
55°	1557	1630	1580
60°	1491	1552	1505
65°	1405	1458	1406
70°	1292	1345	1278
75°	1137	1189	1121
80°	924	964	914
85°	642	685	667



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.4	3.6
10°-20°	97.5	10.2
20°-30°	145.4	15.1
30°-40°	172.3	17.9
40°-50°	174.4	18.2
50°-60°	152.3	15.9
60°-70°	111.3	11.6
70°-80°	59.2	6.2
80°-90°	13.7	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°	277.3	28.9
0°-40°	449.7	46.8
0°-60°	776.3	80.8
0°-90°	960.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	960.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	365	365	365	365	365	
5°	361	361	364	365	362	34
15°	342	344	347	349	345	96
25°	309	313	318	320	315	143
35°	268	272	278	280	276	167
45°	219	223	230	230	226	169
55°	166	169	174	171	168	148
65°	110	113	114	112	110	109
75°	55	56	57	55	54	58
85°	10	11	11	11	11	13
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	365.3	365.3	365.3	365.3	365.3
2.5°	362.5	363.7	364.9	365.4	362.4
5°	360.6	361.3	364.0	364.8	361.7
7.5°	357.5	358.5	361.1	361.5	358.5
10°	353.2	355.0	356.8	358.7	355.1
12.5°	347.8	350.2	353.2	353.5	350.8
15°	341.6	343.9	347.1	349.2	344.7
17.5°	334.8	337.0	341.2	341.5	338.8
20°	327.1	329.9	334.9	335.8	330.9
22.5°	318.4	322.1	326.3	327.2	323.5
25°	309.3	313.2	318.3	319.5	314.7
27.5°	299.8	303.5	309.3	310.1	306.1
30°	289.6	293.1	299.5	300.9	296.7
32.5°	279.3	282.7	289.8	291.0	286.9
35°	267.8	272.0	278.4	280.3	275.8
37.5°	256.1	260.1	267.4	269.2	264.3
40°	243.9	248.0	255.1	256.6	251.9
42.5°	231.5	235.5	243.2	243.5	239.6
45°	218.8	222.7	229.9	230.1	225.5
47.5°	206.0	209.9	216.3	215.6	211.3
50°	192.9	196.7	202.3	200.8	197.0
52.5°	179.5	183.1	188.4	186.0	182.4
55°	165.9	169.3	173.7	171.2	168.4
57.5°	152.3	155.6	159.0	156.5	154.0
60°	138.5	141.4	144.2	141.6	139.8
62.5°	124.5	127.0	129.4	126.9	125.2
65°	110.3	112.6	114.5	112.3	110.4
67.5°	96.2	98.1	100.0	97.6	95.7
70°	82.1	83.8	85.5	83.0	81.2
72.5°	68.2	69.7	71.2	68.8	67.3
75°	54.7	56.0	57.2	55.1	53.9
77.5°	41.8	42.9	43.7	42.4	41.2
80°	29.8	30.6	31.1	30.6	29.5
82.5°	19.2	19.8	20.0	20.0	19.3
85°	10.4	10.6	11.1	11.2	10.8
87.5°	4.0	4.3	4.4	4.8	4.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)