

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: P490024

Luminaire Tested: **CLP-12-2-INS-A19156-LD4-1LO-35-120-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: P490024
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-35-120-EDD-90
Description: 1X2 CLP LED LUMINAIRE WITH A19156 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

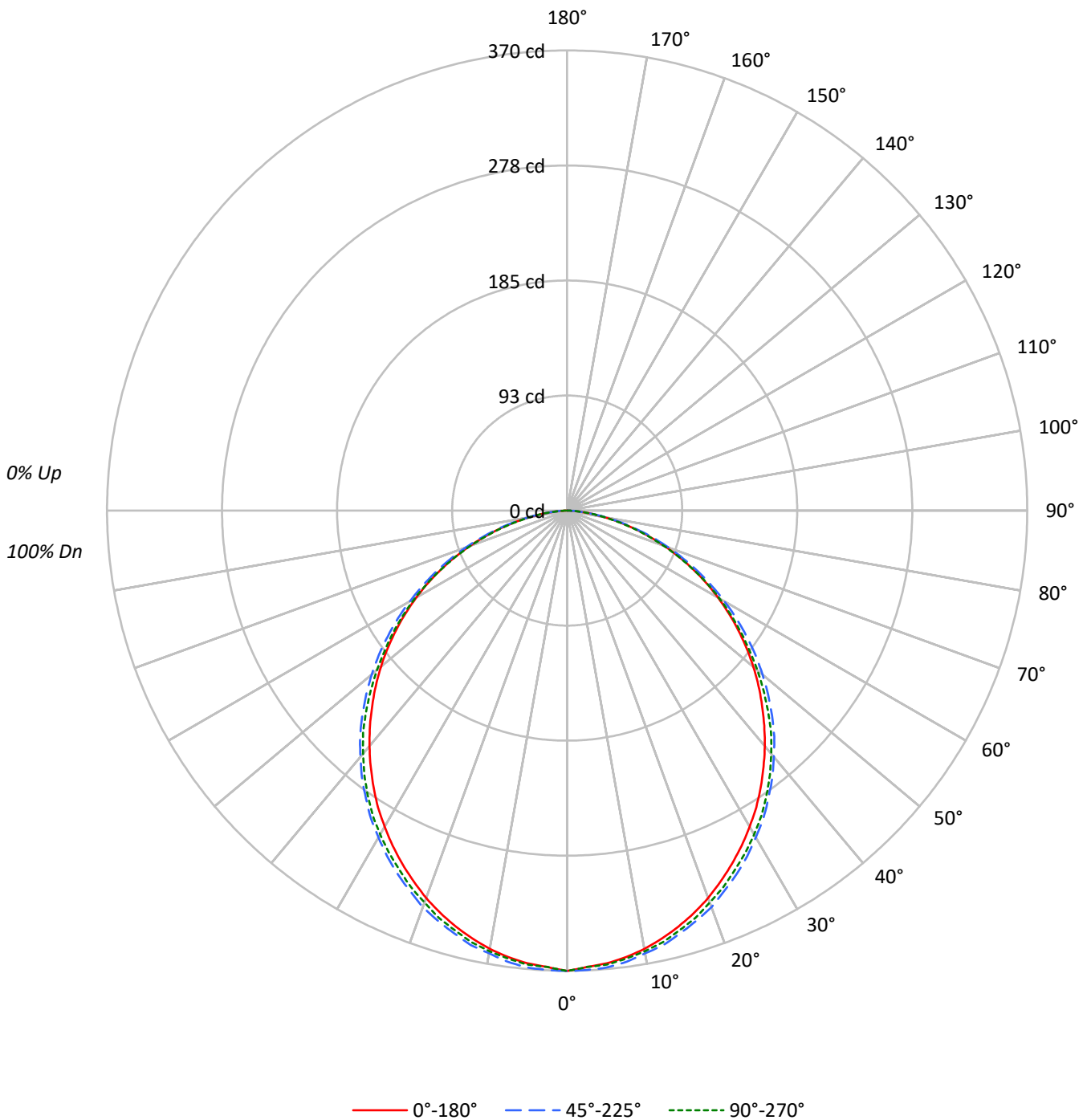
Lumens per Lamp: N/A
Luminaire Lumens: 973.3 lumens
Efficiency: N/A
Efficacy: 83.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
Input Voltage (V): NR
Input Current (A_{in}): 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°	1992	1992	1992
5°	1974	1992	1980
10°	1956	1976	1966
15°	1929	1960	1946
20°	1899	1944	1920
25°	1862	1916	1894
30°	1824	1885	1869
35°	1783	1853	1836
40°	1737	1816	1794
45°	1687	1773	1739
50°	1637	1716	1671
55°	1577	1651	1601
60°	1510	1573	1524
65°	1424	1479	1425
70°	1309	1363	1295
75°	1154	1206	1135
80°	936	979	927
85°	655	698	679



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.9	3.6
10°-20°	98.8	10.2
20°-30°	147.4	15.1
30°-40°	174.6	17.9
40°-50°	176.7	18.2
50°-60°	154.3	15.9
60°-70°	112.8	11.6
70°-80°	60.0	6.2
80°-90°	13.9	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°	281.0	28.9
0°-40°	455.7	46.8
0°-60°	786.7	80.8
0°-90°	973.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	973.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	370	370	370	370	370	
5°	365	366	369	370	366	35
15°	346	348	352	354	349	98
25°	314	317	323	324	319	144
35°	271	276	282	284	280	170
45°	222	226	233	233	228	171
55°	168	172	176	174	171	150
65°	112	114	116	114	112	111
75°	56	57	58	56	55	59
85°	11	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°	370.2	370.2	370.2	370.2	370.2
2.5°	367.3	368.5	369.7	370.3	367.3
5°	365.4	366.1	368.8	369.7	366.5
7.5°	362.2	363.3	365.9	366.3	363.3
10°	357.9	359.8	361.5	363.5	359.8
12.5°	352.4	354.9	357.9	358.3	355.5
15°	346.2	348.5	351.8	353.9	349.3
17.5°	339.2	341.5	345.7	346.1	343.3
20°	331.5	334.3	339.4	340.2	335.3
22.5°	322.7	326.4	330.7	331.5	327.9
25°	313.5	317.3	322.6	323.8	318.9
27.5°	303.8	307.5	313.4	314.3	310.2
30°	293.5	297.0	303.4	304.9	300.7
32.5°	283.0	286.5	293.6	294.8	290.8
35°	271.4	275.6	282.1	284.1	279.5
37.5°	259.5	263.6	271.0	272.8	267.8
40°	247.2	251.3	258.5	260.0	255.3
42.5°	234.6	238.7	246.5	246.7	242.8
45°	221.7	225.7	232.9	233.1	228.5
47.5°	208.7	212.7	219.2	218.4	214.1
50°	195.5	199.3	205.0	203.5	199.6
52.5°	181.9	185.5	190.9	188.5	184.8
55°	168.1	171.5	176.0	173.5	170.6
57.5°	154.3	157.7	161.2	158.6	156.1
60°	140.3	143.3	146.1	143.5	141.6
62.5°	126.1	128.7	131.1	128.6	126.9
65°	111.8	114.1	116.1	113.7	111.9
67.5°	97.5	99.4	101.3	98.9	96.9
70°	83.2	84.9	86.6	84.1	82.3
72.5°	69.2	70.6	72.1	69.7	68.2
75°	55.5	56.7	58.0	55.9	54.6
77.5°	42.4	43.5	44.3	43.0	41.8
80°	30.2	31.1	31.6	31.0	29.9
82.5°	19.4	20.0	20.3	20.3	19.5
85°	10.6	10.8	11.3	11.4	11.0
87.5°	4.1	4.4	4.5	4.8	4.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)