

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: P490077

Luminaire Tested: **CLP-12-2-INS-A19156-LD4-2STD-50-120-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: P490077
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-LD4-2STD-50-120-EDD
Description: 1X2 CLP LED LUMINAIRE WITH A19156 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

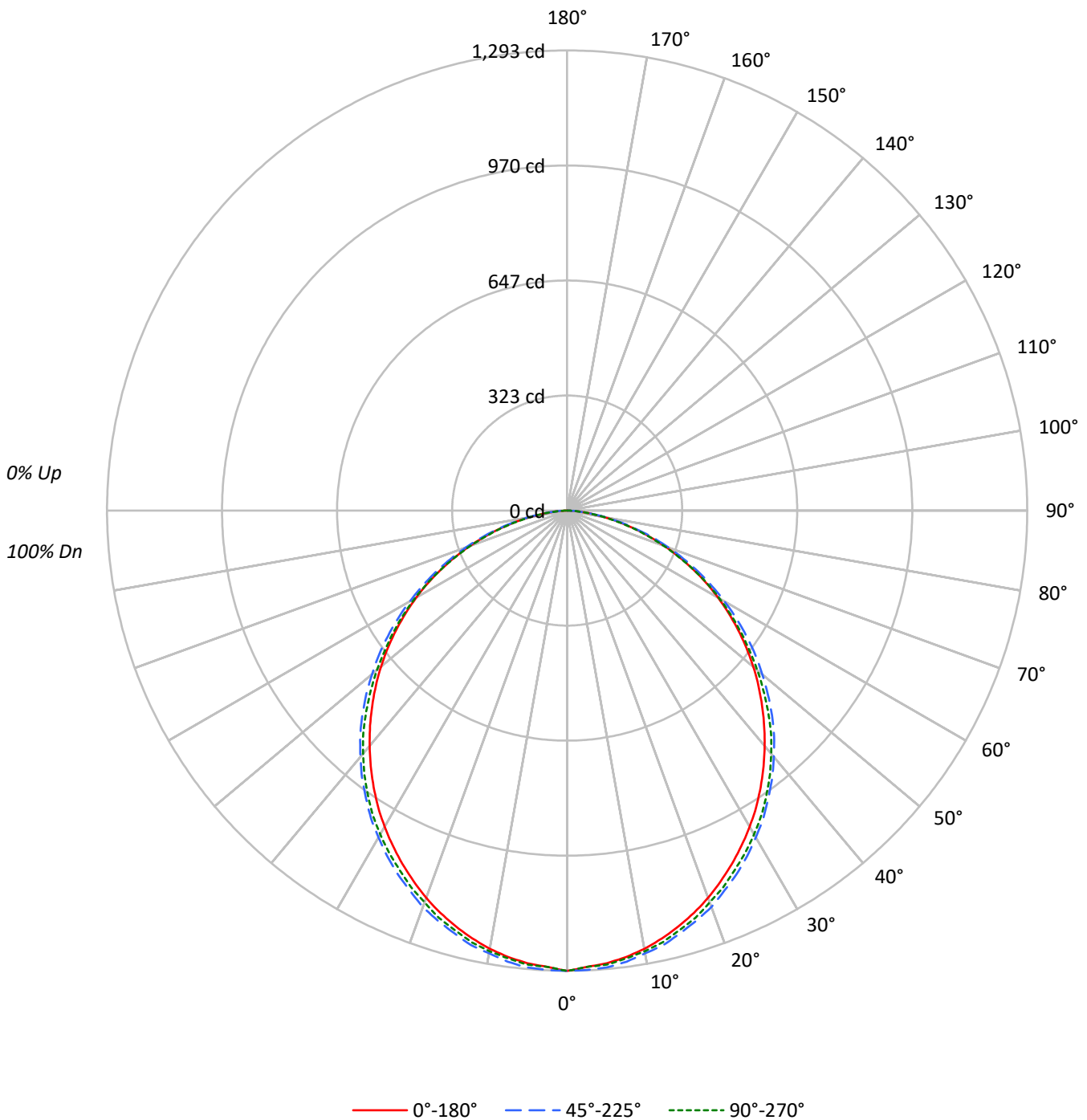
Lumens per Lamp: N/A
Luminaire Lumens: 3400.5 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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°	6961	6961	6961
5°	6897	6962	6918
10°	6833	6903	6869
15°	6739	6848	6800
20°	6633	6790	6708
25°	6504	6693	6616
30°	6372	6589	6528
35°	6229	6476	6416
40°	6067	6346	6265
45°	5896	6194	6078
50°	5719	5996	5839
55°	5512	5770	5592
60°	5278	5496	5326
65°	4973	5164	4977
70°	4576	4760	4526
75°	4030	4211	3968
80°	3276	3415	3236
85°	2279	2433	2371



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.8	3.6
10°-20°	345.2	10.2
20°-30°	514.8	15.1
30°-40°	610.1	17.9
40°-50°	617.3	18.2
50°-60°	539.1	15.9
60°-70°	394.0	11.6
70°-80°	209.6	6.2
80°-90°	48.4	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°	981.9	28.9
0°-40°	1592.0	46.8
0°-60°	2748.4	80.8
0°-90°	3400.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3400.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1293	1293	1293	1293	1293	
5°	1277	1279	1289	1292	1281	121
15°	1210	1218	1229	1236	1220	341
25°	1095	1109	1127	1131	1114	505
35°	948	963	986	992	976	593
45°	775	788	814	814	798	598
55°	587	599	615	606	596	525
65°	390	398	406	397	391	386
75°	194	198	202	195	191	206
85°	37	38	39	40	38	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1293.4	1293.4	1293.4	1293.4	1293.4
2.5°	1283.3	1287.5	1291.8	1293.7	1283.2
5°	1276.6	1279.0	1288.6	1291.5	1280.6
7.5°	1265.5	1269.2	1278.5	1279.8	1269.3
10°	1250.4	1256.9	1263.1	1269.8	1257.0
12.5°	1231.2	1239.9	1250.4	1251.7	1242.0
15°	1209.5	1217.6	1229.0	1236.4	1220.4
17.5°	1185.2	1193.0	1207.9	1209.2	1199.5
20°	1158.1	1167.8	1185.6	1188.7	1171.3
22.5°	1127.4	1140.5	1155.3	1158.3	1145.5
25°	1095.2	1108.7	1127.0	1131.2	1114.1
27.5°	1061.5	1074.4	1095.1	1098.0	1083.6
30°	1025.4	1037.5	1060.2	1065.1	1050.5
32.5°	988.7	1000.9	1025.9	1030.1	1015.8
35°	948.0	962.9	985.6	992.5	976.5
37.5°	906.5	921.0	946.8	953.0	935.8
40°	863.5	877.8	903.3	908.4	891.8
42.5°	819.6	833.9	861.1	861.9	848.2
45°	774.7	788.5	813.8	814.5	798.5
47.5°	729.2	743.1	765.7	763.1	748.1
50°	683.1	696.3	716.1	711.0	697.4
52.5°	635.4	648.2	666.9	658.6	645.8
55°	587.4	599.3	614.9	606.0	596.0
57.5°	539.0	551.0	563.0	554.0	545.4
60°	490.3	500.8	510.6	501.4	494.8
62.5°	440.7	449.7	458.2	449.4	443.2
65°	390.5	398.5	405.5	397.4	390.8
67.5°	340.7	347.4	353.9	345.5	338.7
70°	290.8	296.6	302.5	293.9	287.6
72.5°	241.6	246.7	252.0	243.6	238.1
75°	193.8	198.2	202.5	195.1	190.8
77.5°	148.1	151.9	154.8	150.1	145.9
80°	105.7	108.5	110.2	108.3	104.4
82.5°	67.9	69.9	70.9	70.7	68.2
85°	36.9	37.6	39.4	39.8	38.4
87.5°	14.3	15.2	15.6	16.8	15.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)