

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: P490047

Luminaire Tested: **CLP-12-2-INS-A19156-LD4-2HI-30-120-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: P490047
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-LD4-2HI-30-120-EDD
Description: 1X2 CLP LED LUMINAIRE WITH A19156 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

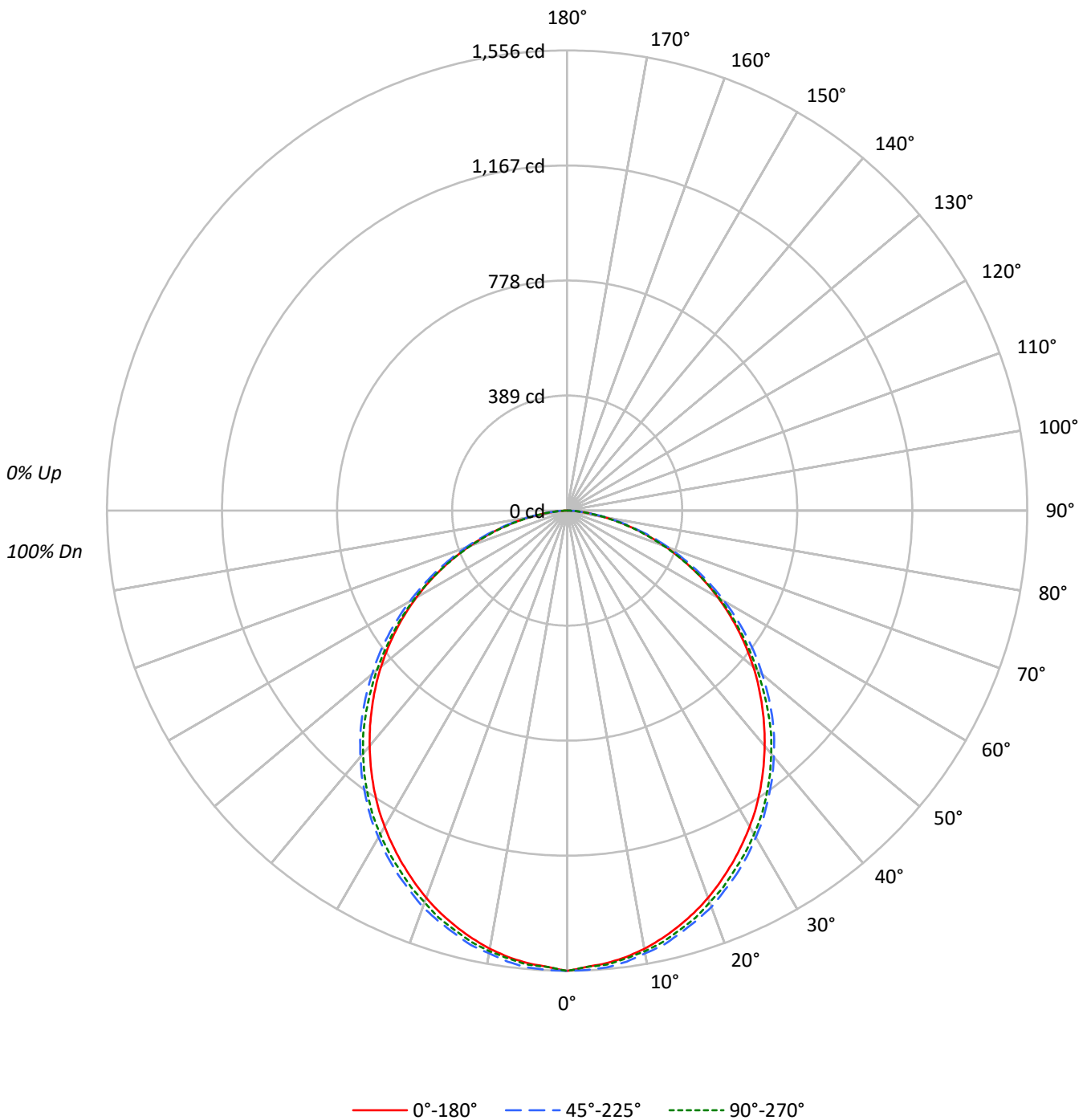
Lumens per Lamp: N/A
Luminaire Lumens: 4092.1 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
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°	8377	8377	8377
5°	8299	8378	8326
10°	8224	8307	8267
15°	8110	8241	8183
20°	7982	8172	8073
25°	7826	8054	7961
30°	7668	7929	7856
35°	7496	7793	7721
40°	7301	7637	7540
45°	7096	7454	7313
50°	6882	7216	7026
55°	6633	6944	6731
60°	6351	6614	6410
65°	5985	6215	5989
70°	5508	5729	5446
75°	4849	5068	4774
80°	3939	4113	3896
85°	2742	2927	2853



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.6	3.6
10°-20°	415.4	10.2
20°-30°	619.6	15.1
30°-40°	734.2	17.9
40°-50°	742.9	18.2
50°-60°	648.8	15.9
60°-70°	474.1	11.6
70°-80°	252.3	6.2
80°-90°	58.3	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°	1181.6	28.9
0°-40°	1915.7	46.8
0°-60°	3307.4	80.8
0°-90°	4092.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4092.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1556	1556	1556	1556	1556	
5°	1536	1539	1551	1554	1541	146
15°	1456	1465	1479	1488	1469	410
25°	1318	1334	1356	1361	1341	607
35°	1141	1159	1186	1194	1175	713
45°	932	949	979	980	961	719
55°	707	721	740	729	717	632
65°	470	480	488	478	470	465
75°	233	238	244	235	230	248
85°	44	45	47	48	46	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1556.5	1556.5	1556.5	1556.5	1556.5
2.5°	1544.3	1549.4	1554.5	1556.8	1544.2
5°	1536.2	1539.1	1550.7	1554.2	1541.1
7.5°	1522.9	1527.3	1538.5	1540.1	1527.5
10°	1504.8	1512.5	1520.0	1528.1	1512.7
12.5°	1481.6	1492.1	1504.8	1506.2	1494.5
15°	1455.5	1465.2	1479.0	1487.9	1468.6
17.5°	1426.3	1435.7	1453.5	1455.1	1443.5
20°	1393.7	1405.3	1426.8	1430.5	1409.6
22.5°	1356.7	1372.4	1390.3	1393.8	1378.4
25°	1317.9	1334.2	1356.2	1361.2	1340.6
27.5°	1277.4	1293.0	1317.8	1321.3	1304.0
30°	1233.9	1248.5	1275.8	1281.8	1264.1
32.5°	1189.8	1204.4	1234.6	1239.6	1222.4
35°	1140.9	1158.7	1186.1	1194.4	1175.1
37.5°	1090.9	1108.3	1139.4	1146.9	1126.1
40°	1039.2	1056.4	1087.0	1093.2	1073.2
42.5°	986.3	1003.5	1036.3	1037.2	1020.7
45°	932.3	948.8	979.3	980.1	960.8
47.5°	877.5	894.2	921.4	918.4	900.2
50°	822.0	837.9	861.8	855.6	839.2
52.5°	764.6	780.0	802.6	792.5	777.1
55°	706.9	721.2	740.0	729.3	717.3
57.5°	648.7	663.1	677.5	666.7	656.3
60°	590.0	602.6	614.5	603.4	595.5
62.5°	530.3	541.2	551.4	540.8	533.4
65°	470.0	479.5	488.0	478.2	470.3
67.5°	410.0	418.1	425.9	415.8	407.5
70°	350.0	356.9	364.1	353.7	346.1
72.5°	290.8	296.9	303.3	293.2	286.6
75°	233.2	238.5	243.7	234.8	229.6
77.5°	178.2	182.8	186.3	180.7	175.6
80°	127.1	130.5	132.7	130.4	125.7
82.5°	81.7	84.2	85.3	85.1	82.1
85°	44.4	45.2	47.4	47.8	46.2
87.5°	17.2	18.3	18.8	20.3	18.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)