

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: P490265

Luminaire Tested: **CLP-12-4-INS-A19156-LD4-1HI-35-120-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: P490265
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-12-4-INS-A19156-LD4-1HI-35-120-EDD
Description: 1X4 CLP LED LUMINAIRE WITH A19156 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

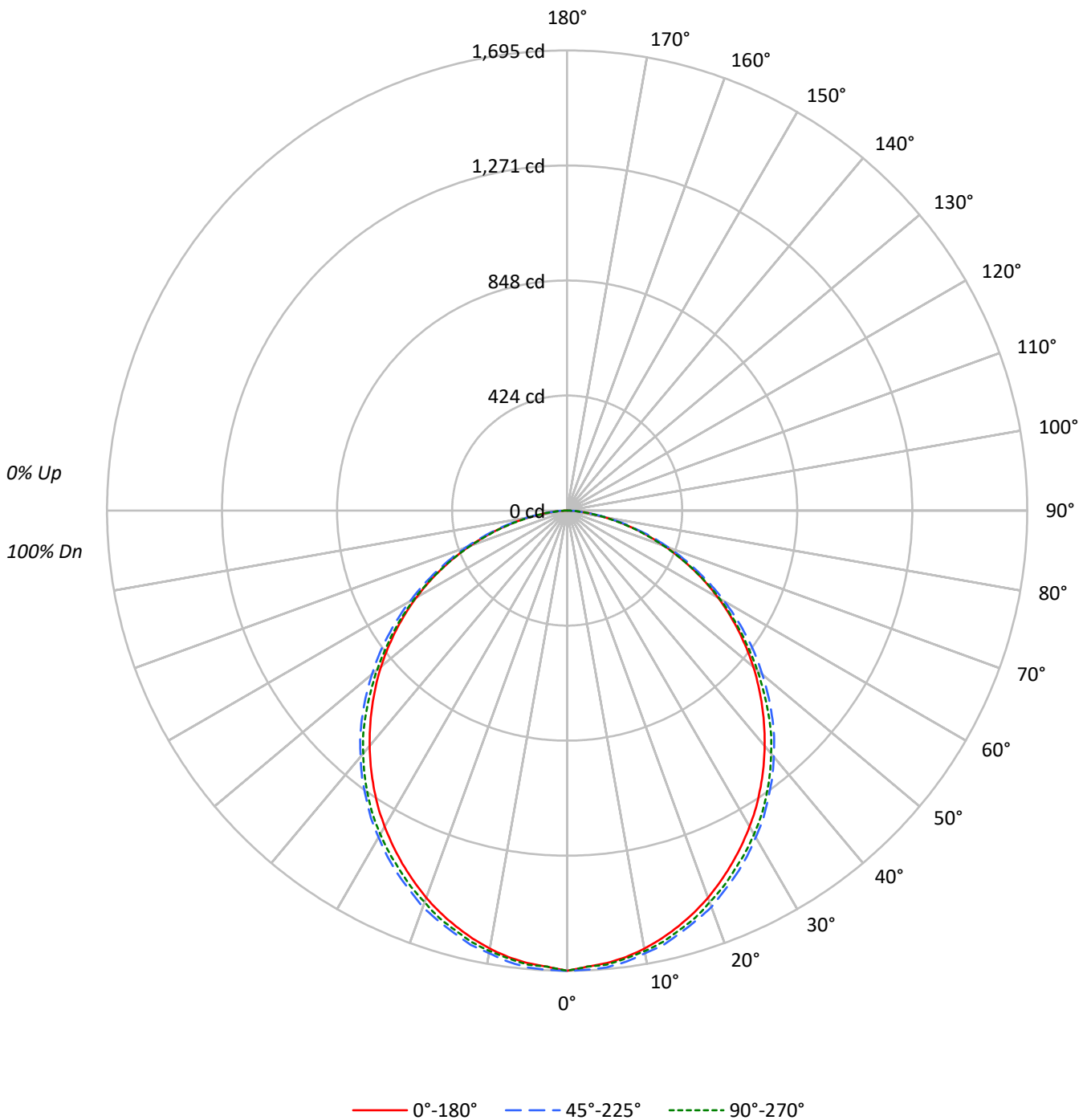
Lumens per Lamp: N/A
Luminaire Lumens: 4456.7 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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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CATALOG NUMBER: CLP-12-4-INS-A19156-LD4-1HI-35-120-EDD

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°	4562	4562	4562
5°	4519	4562	4534
10°	4478	4523	4502
15°	4416	4487	4456
20°	4346	4450	4396
25°	4262	4385	4335
30°	4176	4317	4278
35°	4082	4244	4204
40°	3976	4159	4106
45°	3864	4059	3983
50°	3748	3929	3826
55°	3612	3781	3665
60°	3458	3602	3490
65°	3259	3384	3261
70°	2998	3120	2965
75°	2641	2760	2600
80°	2146	2239	2122
85°	1494	1593	1553



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.7	3.6
10°-20°	452.4	10.2
20°-30°	674.8	15.1
30°-40°	799.6	17.9
40°-50°	809.1	18.2
50°-60°	706.6	15.9
60°-70°	516.3	11.6
70°-80°	274.7	6.2
80°-90°	63.5	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°	1286.8	28.9
0°-40°	2086.4	46.8
0°-60°	3602.1	80.8
0°-90°	4456.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4456.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1695	1695	1695	1695	1695	
5°	1673	1676	1689	1693	1678	159
15°	1585	1596	1611	1620	1599	447
25°	1435	1453	1477	1482	1460	661
35°	1242	1262	1292	1301	1280	777
45°	1015	1033	1067	1068	1046	783
55°	770	785	806	794	781	688
65°	512	522	531	521	512	506
75°	254	260	266	256	250	270
85°	48	49	52	52	50	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1695.2	1695.2	1695.2	1695.2	1695.2
2.5°	1681.9	1687.4	1693.1	1695.5	1681.7
5°	1673.1	1676.3	1688.8	1692.7	1678.4
7.5°	1658.6	1663.4	1675.6	1677.3	1663.6
10°	1638.8	1647.3	1655.4	1664.3	1647.5
12.5°	1613.6	1625.1	1638.8	1640.4	1627.7
15°	1585.1	1595.7	1610.7	1620.5	1599.4
17.5°	1553.3	1563.6	1583.0	1584.8	1572.1
20°	1517.8	1530.6	1553.9	1557.9	1535.2
22.5°	1477.6	1494.7	1514.1	1518.0	1501.2
25°	1435.4	1453.0	1477.0	1482.5	1460.1
27.5°	1391.2	1408.2	1435.2	1439.1	1420.2
30°	1343.9	1359.8	1389.4	1396.0	1376.7
32.5°	1295.8	1311.7	1344.6	1350.1	1331.3
35°	1242.5	1261.9	1291.8	1300.8	1279.8
37.5°	1188.1	1207.0	1240.9	1249.0	1226.4
40°	1131.8	1150.5	1183.9	1190.6	1168.9
42.5°	1074.2	1092.9	1128.6	1129.6	1111.6
45°	1015.4	1033.4	1066.6	1067.5	1046.5
47.5°	955.7	973.9	1003.5	1000.2	980.4
50°	895.3	912.6	938.5	931.8	914.0
52.5°	832.7	849.5	874.1	863.1	846.3
55°	769.9	785.4	805.9	794.2	781.2
57.5°	706.5	722.2	737.9	726.1	714.8
60°	642.5	656.3	669.2	657.2	648.5
62.5°	577.5	589.4	600.5	589.0	580.9
65°	511.8	522.3	531.4	520.8	512.2
67.5°	446.5	455.3	463.8	452.8	443.8
70°	381.1	388.7	396.5	385.2	376.9
72.5°	316.7	323.4	330.3	319.3	312.1
75°	254.0	259.8	265.5	255.7	250.1
77.5°	194.1	199.0	202.9	196.8	191.3
80°	138.5	142.2	144.5	142.0	136.9
82.5°	89.0	91.7	92.9	92.7	89.4
85°	48.4	49.3	51.6	52.1	50.3
87.5°	18.7	20.0	20.5	22.1	20.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)