

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: P490326

Luminaire Tested: **CLP-12-4-INS-A19156-LD4-2STD-40-120-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: P490326
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-LD4-2STD-40-120-EDD-90
Description: 1X4 CLP LED LUMINAIRE WITH A19156 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

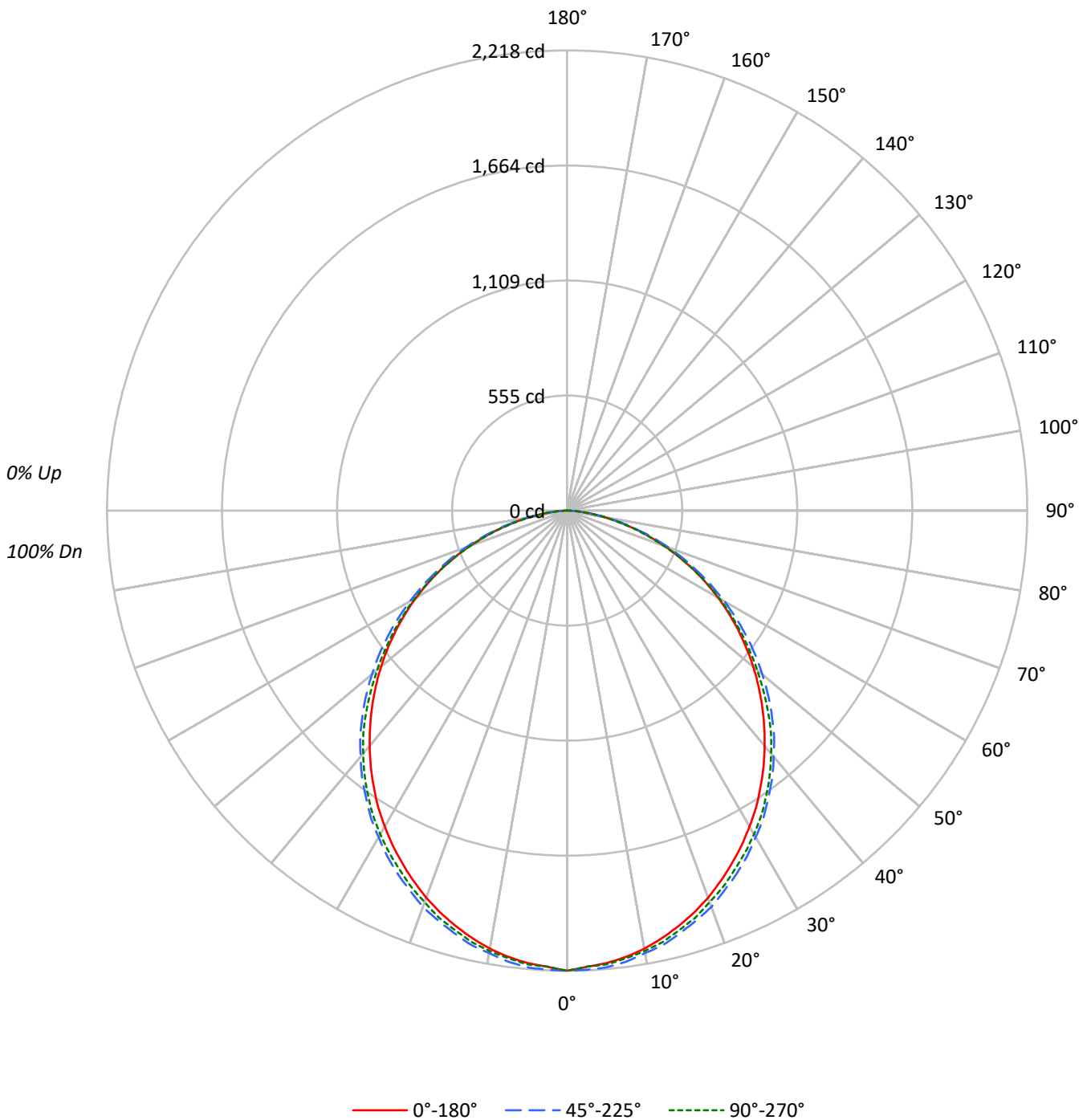
Lumens per Lamp: N/A
Luminaire Lumens: 5830.7 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 66.6
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-LD4-2STD-40-120-EDD-90

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°	5968	5968	5968
5°	5913	5968	5931
10°	5859	5918	5890
15°	5777	5871	5830
20°	5687	5822	5751
25°	5576	5738	5672
30°	5463	5648	5597
35°	5340	5552	5500
40°	5201	5441	5372
45°	5055	5310	5210
50°	4904	5141	5006
55°	4725	4947	4795
60°	4524	4712	4567
65°	4264	4427	4267
70°	3923	4081	3880
75°	3455	3611	3402
80°	2808	2929	2775
85°	1954	2084	2035



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.9	3.6
10°-20°	591.9	10.2
20°-30°	882.8	15.1
30°-40°	1046.1	17.9
40°-50°	1058.5	18.2
50°-60°	924.4	15.9
60°-70°	675.5	11.6
70°-80°	359.4	6.2
80°-90°	83.1	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°	1683.6	28.9
0°-40°	2729.7	46.8
0°-60°	4712.6	80.8
0°-90°	5830.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5830.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2218	2218	2218	2218	2218	
5°	2189	2193	2210	2215	2196	208
15°	2074	2088	2107	2120	2093	585
25°	1878	1901	1932	1940	1910	865
35°	1626	1651	1690	1702	1674	1017
45°	1328	1352	1395	1397	1369	1025
55°	1007	1028	1054	1039	1022	900
65°	670	683	695	681	670	663
75°	332	340	347	335	327	353
85°	63	64	68	68	66	80
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2217.8	2217.8	2217.8	2217.8	2217.8
2.5°	2200.5	2207.6	2215.0	2218.3	2200.2
5°	2188.9	2193.1	2209.5	2214.6	2195.8
7.5°	2170.0	2176.2	2192.1	2194.5	2176.4
10°	2144.1	2155.2	2165.8	2177.4	2155.4
12.5°	2111.0	2126.1	2144.1	2146.2	2129.5
15°	2073.8	2087.7	2107.3	2120.0	2092.6
17.5°	2032.2	2045.6	2071.1	2073.4	2056.7
20°	1985.8	2002.4	2032.9	2038.3	2008.4
22.5°	1933.1	1955.5	1980.9	1986.0	1964.1
25°	1877.9	1901.0	1932.4	1939.6	1910.2
27.5°	1820.1	1842.3	1877.7	1882.7	1858.0
30°	1758.2	1779.0	1817.8	1826.4	1801.2
32.5°	1695.3	1716.1	1759.1	1766.3	1741.8
35°	1625.6	1651.0	1690.0	1701.8	1674.3
37.5°	1554.4	1579.1	1623.5	1634.1	1604.5
40°	1480.7	1505.2	1548.8	1557.6	1529.2
42.5°	1405.4	1429.8	1476.5	1477.9	1454.3
45°	1328.4	1352.0	1395.4	1396.6	1369.1
47.5°	1250.3	1274.1	1312.9	1308.5	1282.7
50°	1171.3	1193.9	1227.9	1219.1	1195.8
52.5°	1089.5	1111.4	1143.6	1129.2	1107.3
55°	1007.2	1027.6	1054.4	1039.1	1022.0
57.5°	924.3	944.8	965.4	949.9	935.1
60°	840.6	858.6	875.5	859.8	848.5
62.5°	755.6	771.1	785.6	770.6	760.0
65°	669.6	683.3	695.3	681.4	670.1
67.5°	584.1	595.7	606.8	592.5	580.7
70°	498.6	508.6	518.7	504.0	493.1
72.5°	414.3	423.1	432.1	417.8	408.3
75°	332.3	339.9	347.3	334.6	327.2
77.5°	253.9	260.4	265.5	257.4	250.2
80°	181.2	186.0	189.0	185.8	179.1
82.5°	116.5	119.9	121.5	121.3	116.9
85°	63.3	64.5	67.5	68.2	65.9
87.5°	24.5	26.1	26.8	28.9	26.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)