

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: METALUX

Report Number: P292692

Luminaire Tested: **22GR-LD5-36-A19/156-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292692
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33284)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-36-A19/156-UNV-L92765-W2A1-U-5500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3344.0 lumens
Efficiency: N/A
Efficacy: 116.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.21
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

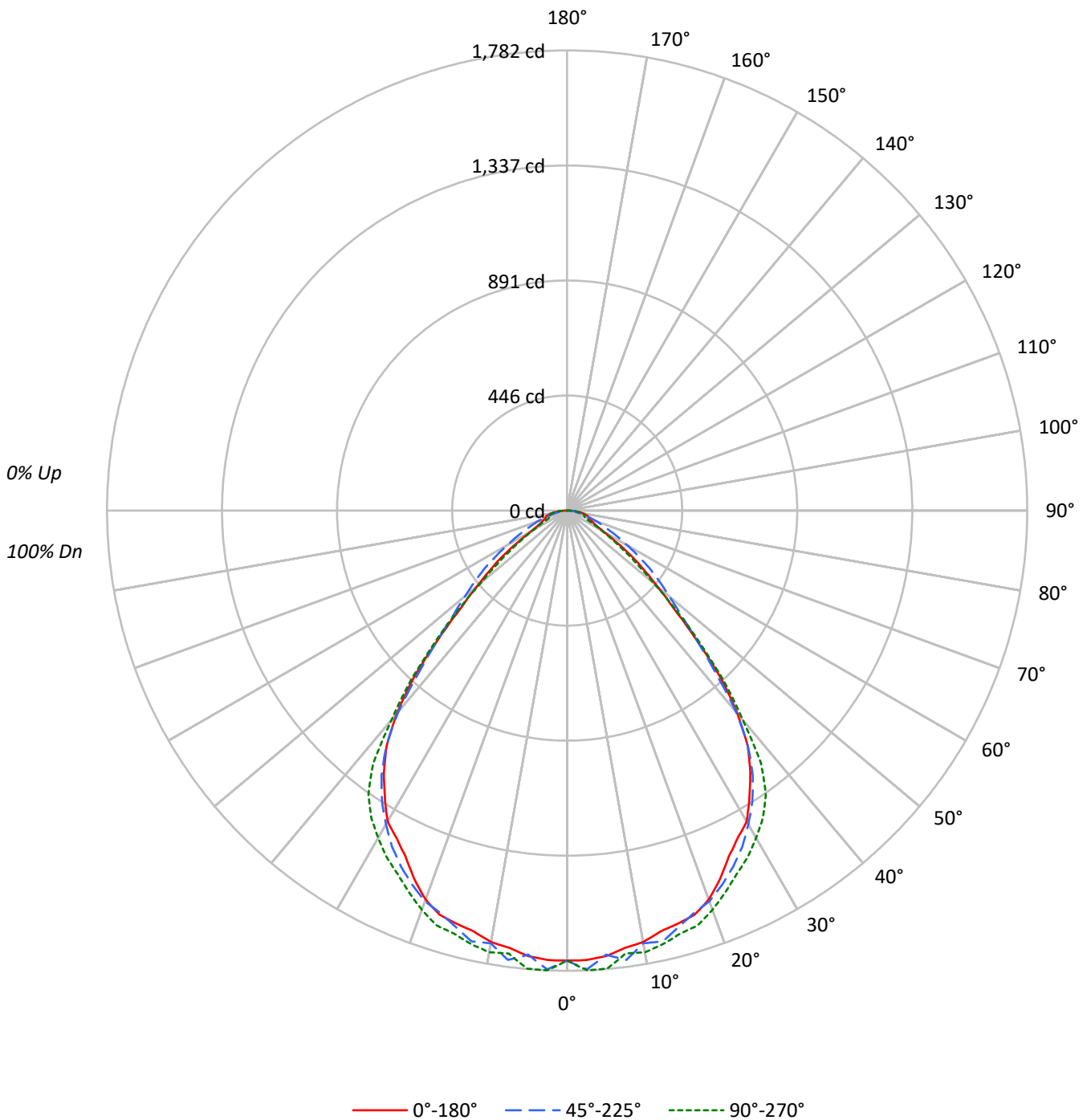
Input Watts (W): 28.83
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P292692

CATALOG NUMBER: 22GR-LD5-36-A19/156-UNV-L92765-W2A1-U-5500K

Luminous Intensity Polar Plot





TEST NUMBER: P292692

CATALOG NUMBER: 22GR-LD5-36-A19/156-UNV-L92765-W2A1-U-5500K

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	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					100			
1	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	91	90	88					88			
2	103	96	90	85	100	94	89	85	91	86	83	88	84	81	85	82	79	77					77			
3	95	86	79	74	93	85	79	73	82	77	72	79	75	71	77	73	70	68					68			
4	88	78	71	65	86	77	70	64	75	68	64	72	67	63	70	66	62	60					60			
5	82	71	63	58	80	70	63	57	68	62	57	66	61	56	64	59	56	54					54			
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48					48			
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44					44			
8	67	55	47	42	66	54	47	42	53	46	42	52	46	41	51	45	41	40					40			
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36					36			
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33					33			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4690	4690	4690
5°	4678	4663	4810
10°	4635	4648	4745
15°	4614	4649	4724
20°	4589	4612	4711
25°	4393	4517	4611
30°	4321	4360	4546
35°	4064	4115	4408
40°	3601	3576	3717
45°	2689	2696	2770
50°	1893	2154	1834
55°	1397	1818	1253
60°	873	1438	819
65°	713	1138	572
70°	707	948	564
75°	876	697	729
80°	976	550	891
85°	973	1022	997



TEST NUMBER: P292692

CATALOG NUMBER: 22GR-LD5-36-A19/156-UNV-L92765-W2A1-U-5500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.9	5.0
10°-20°	472.6	14.1
20°-30°	699.9	20.9
30°-40°	784.0	23.4
40°-50°	576.0	17.2
50°-60°	322.0	9.6
60°-70°	179.5	5.4
70°-80°	105.4	3.2
80°-90°	38.7	1.2
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°	1338.3	40.0
0°-40°	2122.3	63.5
0°-60°	3020.3	90.3
0°-90°	3344.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3344.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1743	1743	1743	1743	1743	
5°	1732	1764	1726	1762	1781	164
15°	1656	1666	1669	1694	1696	468
25°	1480	1492	1521	1543	1553	686
35°	1237	1238	1253	1310	1342	766
45°	707	764	708	759	728	552
55°	298	362	388	387	267	266
65°	112	198	179	229	90	116
75°	84	119	67	135	70	85
85°	32	46	33	42	32	35
90°	0	0	0	0	0	



TEST NUMBER: P292692

CATALOG NUMBER: 22GR-LD5-36-A19/156-UNV-L92765-W2A1-U-5500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1742.8	1742.8	1742.8	1742.8	1742.8
2.5°	1742.0	1757.8	1778.3	1780.6	1782.2
5°	1731.8	1764.1	1726.3	1761.7	1780.6
7.5°	1708.1	1727.8	1755.4	1720.0	1730.2
10°	1696.3	1701.0	1701.0	1745.2	1736.5
12.5°	1669.5	1701.0	1708.9	1700.3	1719.2
15°	1656.1	1666.4	1668.7	1694.0	1695.5
17.5°	1641.2	1638.8	1633.3	1651.4	1683.7
20°	1602.6	1593.9	1610.4	1632.5	1645.1
22.5°	1545.8	1548.2	1567.9	1586.0	1600.2
25°	1479.6	1491.5	1521.4	1542.7	1552.9
27.5°	1430.0	1447.3	1467.8	1493.0	1513.5
30°	1390.6	1389.0	1403.2	1439.5	1463.1
32.5°	1314.2	1319.7	1334.7	1378.0	1411.1
35°	1237.0	1237.8	1252.7	1309.5	1341.8
37.5°	1147.9	1141.6	1150.3	1211.8	1233.0
40°	1025.0	1026.6	1017.9	1061.3	1058.1
42.5°	881.6	894.2	849.3	906.1	902.1
45°	706.7	764.2	708.3	758.7	728.0
47.5°	557.8	642.9	596.4	633.5	575.9
50°	452.2	539.7	514.5	531.0	438.1
52.5°	371.1	442.0	449.9	453.8	341.9
55°	297.8	362.4	387.6	386.9	267.1
57.5°	219.8	294.7	323.8	335.6	202.5
60°	162.3	245.0	267.1	293.1	152.1
62.5°	130.8	215.1	220.6	256.9	115.8
65°	111.9	198.5	178.8	229.3	89.8
67.5°	99.3	185.2	145.8	204.8	76.4
70°	89.8	164.7	120.5	183.6	71.7
72.5°	87.5	140.2	93.0	163.9	70.9
75°	84.3	119.0	67.0	134.7	70.1
77.5°	72.5	101.6	48.1	104.0	65.4
80°	63.0	81.2	35.5	78.0	57.5
82.5°	48.8	61.5	31.5	59.1	46.5
85°	31.5	46.5	33.1	42.5	32.3
87.5°	15.0	26.0	23.6	22.8	16.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)