

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: P292026

Luminaire Tested: **22GR-LD5-43-F125-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292026
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33295)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-43-F125-UNV-L82765-W2A1-U-6500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4551.0 lumens
Efficiency: N/A
Efficacy: 123.9 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.19 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

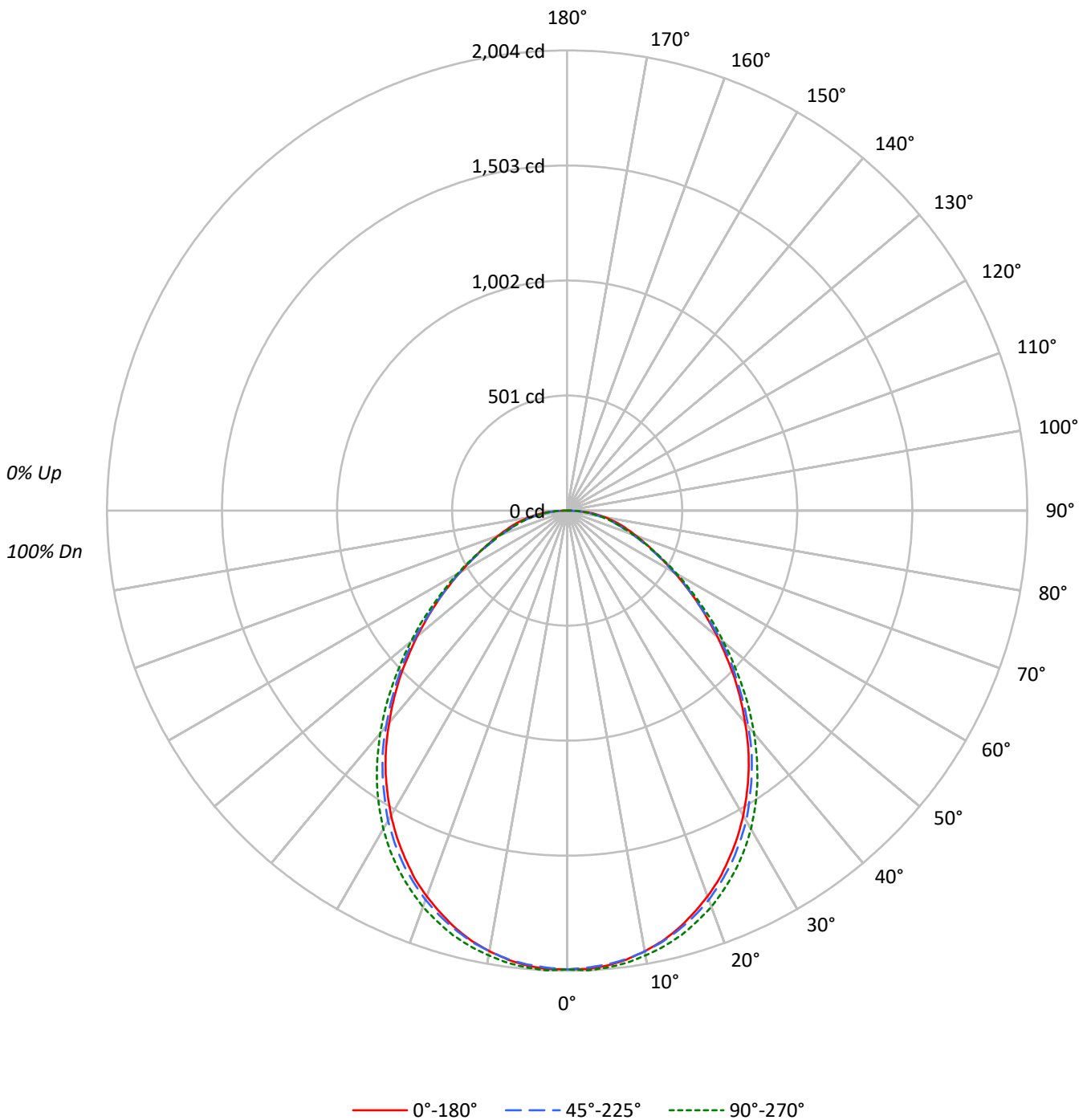
Input Watts (W): 36.735
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P292026

CATALOG NUMBER: 22GR-LD5-43-F125-UNV-L82765-W2A1-U-6500K

Luminous Intensity Polar Plot





TEST NUMBER: P292026

CATALOG NUMBER: 22GR-LD5-43-F125-UNV-L82765-W2A1-U-6500K

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	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54
5	78	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	50	48
6	73	60	52	45	71	59	51	45	57	50	45	56	49	45	54	49	44	42
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5376	5376	5376
5°	5374	5360	5397
10°	5324	5326	5376
15°	5243	5260	5336
20°	5120	5165	5259
25°	4960	5029	5139
30°	4764	4846	4974
35°	4530	4603	4746
40°	4236	4307	4448
45°	3922	3983	4099
50°	3572	3630	3722
55°	3225	3235	3329
60°	2893	2904	2972
65°	2635	2582	2642
70°	2509	2368	2409
75°	2525	2283	2295
80°	2619	2307	2290
85°	2868	2445	2316



TEST NUMBER: P292026

CATALOG NUMBER: 22GR-LD5-43-F125-UNV-L82765-W2A1-U-6500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.8	4.1
10°-20°	533.2	11.7
20°-30°	780.4	17.1
30°-40°	877.4	19.3
40°-50°	809.2	17.8
50°-60°	623.7	13.7
60°-70°	411.5	9.0
70°-80°	239.5	5.3
80°-90°	87.3	1.9
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°	1502.4	33.0
0°-40°	2379.8	52.3
0°-60°	3812.7	83.8
0°-90°	4551.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4551.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1998	1998	1998	1998	1998	
5°	1990	1985	1984	1994	1998	189
15°	1882	1882	1888	1905	1916	530
25°	1671	1679	1694	1717	1731	768
35°	1379	1385	1401	1430	1445	860
45°	1031	1032	1046	1068	1077	794
55°	687	686	690	701	710	617
65°	414	412	406	409	415	415
75°	243	232	220	215	221	256
85°	93	92	79	73	75	98
90°	0	0	0	0	0	



TEST NUMBER: P292026

CATALOG NUMBER: 22GR-LD5-43-F125-UNV-L82765-W2A1-U-6500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1997.9	1997.9	1997.9	1997.9	1997.9
2.5°	1997.9	1993.7	1992.6	2000.0	2004.2
5°	1989.5	1985.2	1984.2	1993.7	1997.9
7.5°	1972.6	1969.4	1970.5	1981.0	1986.3
10°	1948.3	1947.2	1949.3	1960.9	1967.3
12.5°	1919.8	1918.7	1922.9	1935.6	1944.1
15°	1881.8	1881.8	1888.1	1905.0	1915.5
17.5°	1836.3	1839.5	1849.0	1865.9	1877.5
20°	1787.8	1790.9	1803.6	1822.6	1836.3
22.5°	1733.9	1738.1	1750.8	1774.0	1785.7
25°	1670.6	1679.0	1693.8	1717.0	1730.7
27.5°	1605.1	1614.6	1628.3	1656.8	1669.5
30°	1533.3	1539.6	1559.7	1586.1	1600.9
32.5°	1457.2	1463.6	1480.5	1512.2	1524.8
35°	1379.1	1385.4	1401.3	1429.8	1444.6
37.5°	1294.6	1299.9	1318.9	1341.1	1356.9
40°	1205.9	1213.3	1226.0	1252.4	1266.1
42.5°	1119.3	1122.5	1136.2	1162.6	1173.2
45°	1030.6	1031.7	1046.5	1067.6	1077.1
47.5°	938.8	940.9	958.8	971.5	981.0
50°	853.2	854.3	867.0	878.6	889.1
52.5°	767.7	767.7	774.0	786.7	800.4
55°	687.4	686.4	689.6	701.2	709.6
57.5°	611.4	610.4	614.6	622.0	628.3
60°	537.5	535.4	539.6	543.8	552.3
62.5°	472.0	474.1	468.9	475.2	481.5
65°	413.9	411.8	405.5	408.7	415.0
67.5°	364.3	361.1	350.6	352.7	360.1
70°	318.9	312.6	301.0	301.0	306.2
72.5°	277.7	271.4	256.6	257.7	259.8
75°	242.9	232.3	219.6	215.4	220.7
77.5°	204.9	196.4	184.8	181.6	183.7
80°	169.0	162.6	148.9	144.7	147.8
82.5°	134.1	128.8	113.0	109.8	110.9
85°	92.9	91.9	79.2	72.9	75.0
87.5°	49.6	50.7	41.2	37.0	39.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)