

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: P292100

Luminaire Tested: **22GR-LD5-36-F125-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292100
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-LD5-36-F125-UNV-L92765-W2A1-U-3500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3096.0 lumens
Efficiency: N/A
Efficacy: 109.9 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

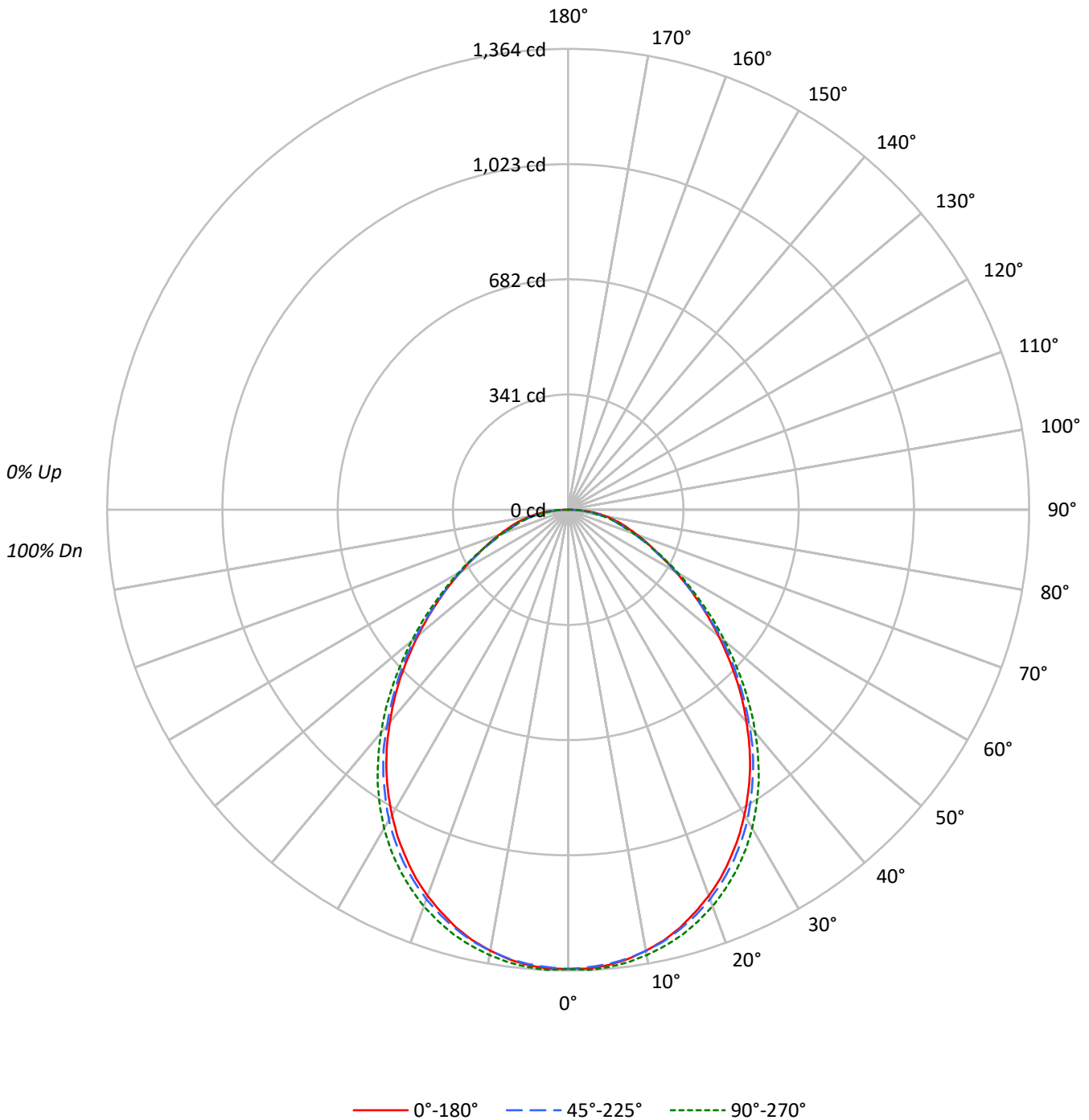
Input Watts (W): 28.179
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P292100

CATALOG NUMBER: 22GR-LD5-36-F125-UNV-L92765-W2A1-U-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P292100

CATALOG NUMBER: 22GR-LD5-36-F125-UNV-L92765-W2A1-U-3500K

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°	3658	3658	3658
5°	3656	3646	3672
10°	3622	3624	3657
15°	3566	3578	3630
20°	3483	3514	3577
25°	3374	3421	3496
30°	3241	3297	3384
35°	3082	3132	3228
40°	2882	2930	3026
45°	2668	2709	2788
50°	2430	2469	2532
55°	2194	2201	2265
60°	1968	1976	2022
65°	1793	1757	1798
70°	1707	1611	1639
75°	1718	1553	1561
80°	1781	1570	1559
85°	1951	1664	1575



TEST NUMBER: P292100

CATALOG NUMBER: 22GR-LD5-36-F125-UNV-L92765-W2A1-U-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.4	4.1
10°-20°	362.7	11.7
20°-30°	530.9	17.1
30°-40°	596.9	19.3
40°-50°	550.5	17.8
50°-60°	424.3	13.7
60°-70°	280.0	9.0
70°-80°	162.9	5.3
80°-90°	59.4	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°	1022.1	33.0
0°-40°	1619.0	52.3
0°-60°	2593.7	83.8
0°-90°	3096.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3096.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1359	1359	1359	1359	1359	
5°	1353	1350	1350	1356	1359	128
15°	1280	1280	1284	1296	1303	360
25°	1136	1142	1152	1168	1177	523
35°	938	942	953	973	983	585
45°	701	702	712	726	733	540
55°	468	467	469	477	483	420
65°	282	280	276	278	282	282
75°	165	158	149	146	150	174
85°	63	62	54	50	51	67
90°	0	0	0	0	0	



TEST NUMBER: P292100

CATALOG NUMBER: 22GR-LD5-36-F125-UNV-L92765-W2A1-U-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1359.2	1359.2	1359.2	1359.2	1359.2
2.5°	1359.2	1356.3	1355.6	1360.6	1363.5
5°	1353.4	1350.5	1349.8	1356.3	1359.2
7.5°	1341.9	1339.8	1340.5	1347.7	1351.3
10°	1325.4	1324.7	1326.1	1334.0	1338.3
12.5°	1306.0	1305.3	1308.2	1316.8	1322.5
15°	1280.1	1280.1	1284.4	1295.9	1303.1
17.5°	1249.2	1251.4	1257.9	1269.4	1277.3
20°	1216.2	1218.4	1227.0	1239.9	1249.2
22.5°	1179.6	1182.4	1191.1	1206.9	1214.8
25°	1136.5	1142.2	1152.3	1168.1	1177.4
27.5°	1091.9	1098.4	1107.7	1127.1	1135.7
30°	1043.1	1047.4	1061.0	1079.0	1089.0
32.5°	991.4	995.7	1007.2	1028.7	1037.3
35°	938.2	942.5	953.3	972.7	982.7
37.5°	880.7	884.3	897.2	912.3	923.1
40°	820.4	825.4	834.0	852.0	861.3
42.5°	761.5	763.6	773.0	790.9	798.1
45°	701.1	701.8	711.9	726.3	732.7
47.5°	638.6	640.1	652.3	660.9	667.4
50°	580.4	581.2	589.8	597.7	604.9
52.5°	522.3	522.3	526.6	535.2	544.5
55°	467.7	466.9	469.1	477.0	482.7
57.5°	415.9	415.2	418.1	423.1	427.4
60°	365.7	364.2	367.1	370.0	375.7
62.5°	321.1	322.5	319.0	323.3	327.6
65°	281.6	280.2	275.9	278.0	282.3
67.5°	247.8	245.7	238.5	239.9	245.0
70°	216.9	212.6	204.7	204.7	208.3
72.5°	188.9	184.6	174.6	175.3	176.7
75°	165.2	158.0	149.4	146.5	150.1
77.5°	139.4	133.6	125.7	123.6	125.0
80°	114.9	110.6	101.3	98.4	100.6
82.5°	91.2	87.6	76.9	74.7	75.4
85°	63.2	62.5	53.9	49.6	51.0
87.5°	33.8	34.5	28.0	25.1	26.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)