

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: P291890

Luminaire Tested: **22GR-LD5-28-F1-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291890
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-23)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-28-F1-UNV-L92765-W2A1-U-5500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2739.0 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.19 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

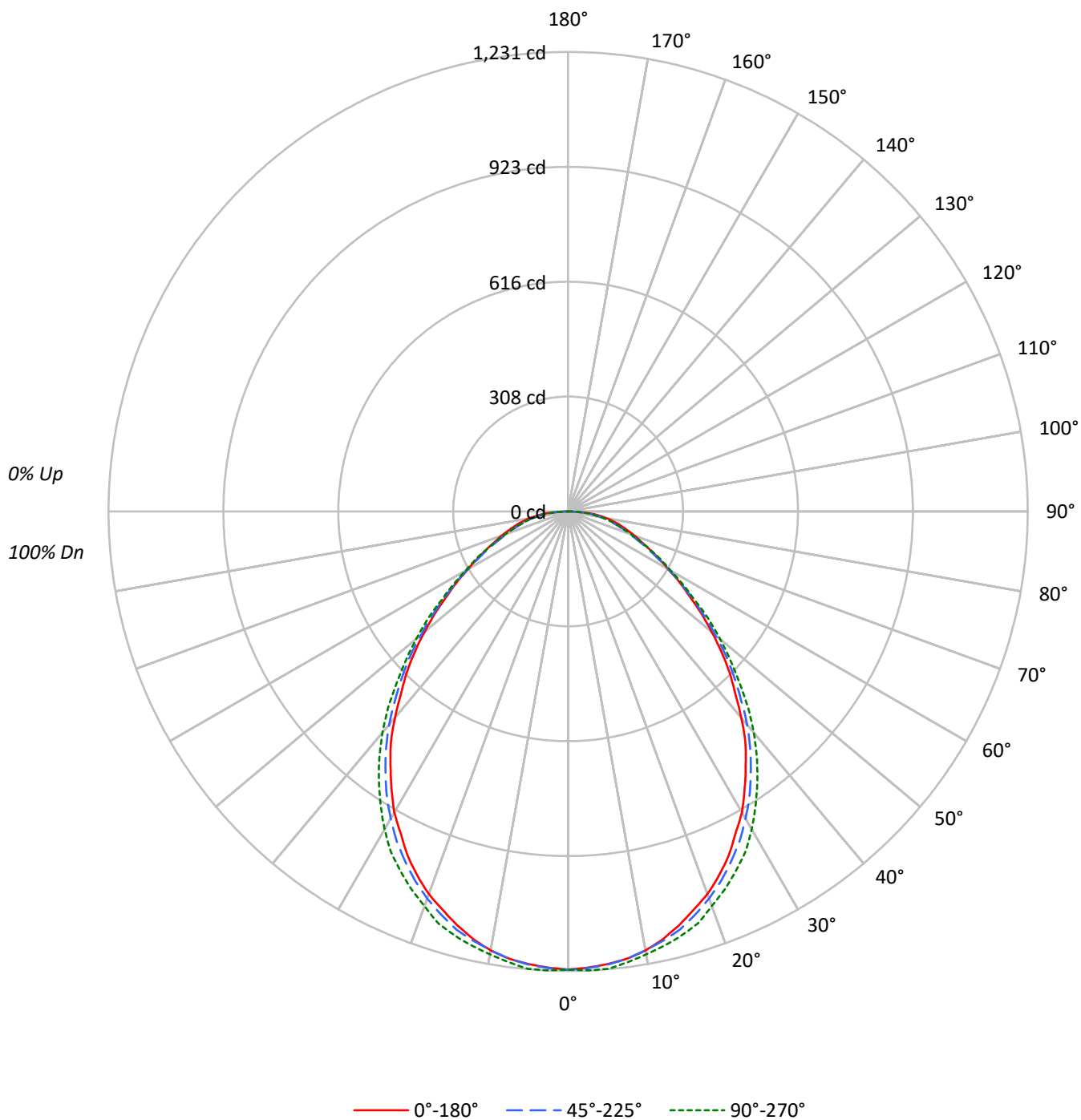
Input Watts (W): 22.692
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P291890

CATALOG NUMBER: 22GR-LD5-28-F1-UNV-L92765-W2A1-U-5500K

Luminous Intensity Polar Plot





TEST NUMBER: P291890

CATALOG NUMBER: 22GR-LD5-28-F1-UNV-L92765-W2A1-U-5500K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	105	101	98	107	103	99	96	99	96	93		95	92	90		91
2	101	93	87	81	98	91	85	80	87	83	78		84	80	77		81
3	92	83	75	69	90	81	74	68	78	72	67		75	70	66		73
4	85	74	66	59	83	73	65	59	70	63	58		68	62	57		66
5	79	67	58	52	77	66	58	52	63	56	51		62	55	51		60
6	73	60	52	46	71	59	51	46	58	51	45		56	50	45		55
7	68	55	47	41	66	54	46	41	53	46	41		51	45	40		50
8	63	51	42	37	62	50	42	37	49	42	37		47	41	36		46
9	59	47	39	33	58	46	39	33	45	38	33		44	38	33		43
10	56	43	36	31	55	43	35	30	42	35	30		41	35	30		40

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3303	3303	3303
5°	3288	3292	3322
10°	3263	3261	3292
15°	3197	3228	3276
20°	3124	3160	3221
25°	3021	3069	3155
30°	2893	2952	3055
35°	2724	2803	2902
40°	2535	2621	2716
45°	2327	2394	2468
50°	2099	2152	2220
55°	1863	1907	1939
60°	1669	1673	1707
65°	1538	1486	1538
70°	1485	1376	1415
75°	1511	1347	1373
80°	1629	1413	1413
85°	1806	1494	1476



TEST NUMBER: P291890

CATALOG NUMBER: 22GR-LD5-28-F1-UNV-L92765-W2A1-U-5500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.8	4.2
10°-20°	326.6	11.9
20°-30°	476.6	17.4
30°-40°	533.6	19.5
40°-50°	485.6	17.7
50°-60°	365.5	13.3
60°-70°	238.5	8.7
70°-80°	143.0	5.2
80°-90°	53.6	2.0
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°	919.0	33.6
0°-40°	1452.6	53.0
0°-60°	2303.8	84.1
0°-90°	2739.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2739.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1227	1227	1227	1227	1227	
5°	1217	1216	1219	1223	1230	115
15°	1148	1149	1159	1168	1176	323
25°	1017	1020	1034	1052	1063	467
35°	829	837	853	873	883	518
45°	612	618	629	642	649	471
55°	397	403	406	412	413	359
65°	242	239	233	237	242	242
75°	145	140	130	130	132	154
85°	58	57	48	46	48	60
90°	0	0	0	0	0	



TEST NUMBER: P291890

CATALOG NUMBER: 22GR-LD5-28-F1-UNV-L92765-W2A1-U-5500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1227.4	1227.4	1227.4	1227.4	1227.4
2.5°	1223.0	1222.4	1224.3	1227.4	1230.6
5°	1217.3	1215.5	1218.6	1223.0	1229.9
7.5°	1208.5	1208.5	1208.5	1216.7	1218.0
10°	1194.1	1195.3	1193.4	1201.6	1204.8
12.5°	1173.3	1173.9	1177.7	1185.9	1191.5
15°	1147.5	1148.8	1158.8	1168.3	1175.8
17.5°	1118.6	1123.0	1132.4	1147.5	1156.9
20°	1090.9	1095.9	1103.5	1119.8	1124.9
22.5°	1055.7	1061.3	1070.8	1085.2	1095.9
25°	1017.3	1020.4	1033.6	1052.5	1062.6
27.5°	971.4	978.3	994.6	1014.1	1028.0
30°	931.1	934.9	950.0	972.6	983.3
32.5°	880.1	891.5	904.0	924.2	934.2
35°	829.2	836.7	853.1	873.2	883.3
37.5°	780.1	784.5	800.9	817.9	830.4
40°	721.6	729.8	746.1	764.4	773.2
42.5°	663.1	675.0	685.7	704.0	713.4
45°	611.5	617.8	629.1	642.3	648.6
47.5°	557.4	560.5	573.8	581.9	588.9
50°	501.4	505.2	514.0	522.2	530.3
52.5°	449.8	453.0	458.6	466.2	474.4
55°	397.0	402.6	406.4	412.1	413.3
57.5°	354.2	353.6	356.1	360.5	364.9
60°	310.2	311.4	310.8	315.2	317.1
62.5°	273.7	273.0	269.3	275.6	280.6
65°	241.6	239.1	233.4	237.2	241.6
67.5°	212.0	210.8	201.3	204.5	208.2
70°	188.7	184.3	174.9	176.8	179.9
72.5°	166.1	161.1	151.6	152.2	154.1
75°	145.3	140.3	129.6	130.2	132.1
77.5°	125.8	119.5	110.1	108.8	110.1
80°	105.1	99.4	91.2	87.4	91.2
82.5°	83.7	80.5	71.1	67.3	68.6
85°	58.5	56.6	48.4	45.9	47.8
87.5°	27.1	28.9	24.5	22.6	23.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)