

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: P292084

Luminaire Tested: **22GR-LD5-28-F125-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292084  
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-LD5-28-F125-UNV-L92765-W2A1-U-4500K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2644.0 lumens  
Efficiency: N/A  
Efficacy: 118.0 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

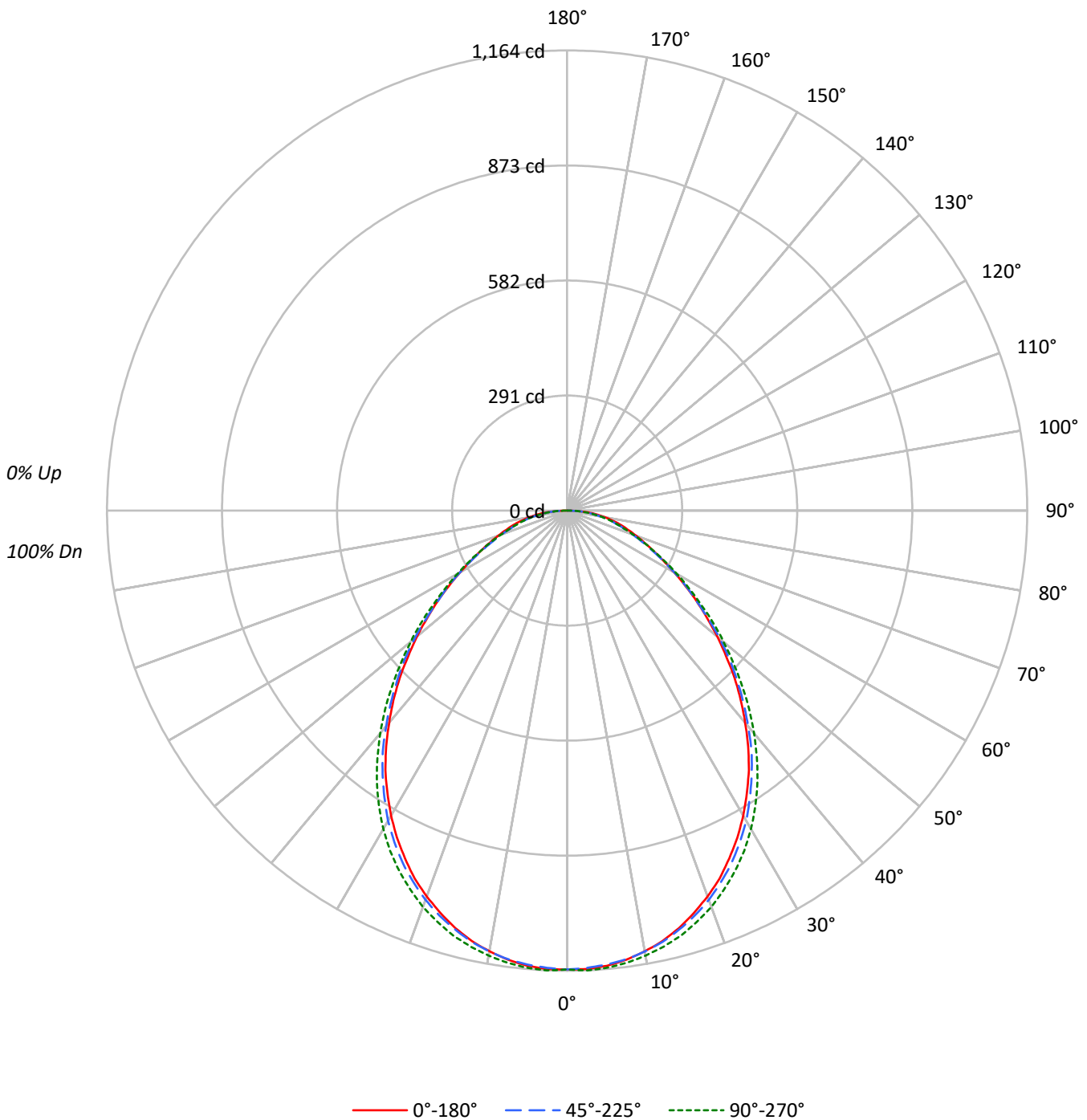
Input Watts (W): 22.413  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### 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	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°	3123	3123	3123
5°	3122	3114	3135
10°	3093	3095	3123
15°	3046	3056	3100
20°	2974	3001	3055
25°	2882	2922	2985
30°	2768	2816	2890
35°	2632	2674	2757
40°	2461	2502	2584
45°	2279	2314	2382
50°	2075	2109	2163
55°	1874	1879	1934
60°	1681	1687	1727
65°	1531	1500	1535
70°	1458	1375	1400
75°	1467	1327	1333
80°	1522	1340	1331
85°	1667	1420	1346



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.7	4.1
10°-20°	309.8	11.7
20°-30°	453.4	17.1
30°-40°	509.8	19.3
40°-50°	470.1	17.8
50°-60°	362.3	13.7
60°-70°	239.1	9.0
70°-80°	139.2	5.3
80°-90°	50.7	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°	872.8	33.0
0°-40°	1382.6	52.3
0°-60°	2215.1	83.8
0°-90°	2644.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2644.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1161	1161	1161	1161	1161	
5°	1156	1153	1153	1158	1161	110
15°	1093	1093	1097	1107	1113	308
25°	970	976	984	998	1006	446
35°	801	805	814	831	839	500
45°	599	599	608	620	626	461
55°	399	399	401	407	412	358
65°	240	239	236	237	241	241
75°	141	135	128	125	128	149
85°	54	53	46	42	44	57
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1160.7	1160.7	1160.7	1160.7	1160.7
2.5°	1160.7	1158.3	1157.7	1162.0	1164.4
5°	1155.8	1153.4	1152.8	1158.3	1160.7
7.5°	1146.0	1144.2	1144.8	1150.9	1154.0
10°	1131.9	1131.3	1132.5	1139.3	1142.9
12.5°	1115.3	1114.7	1117.2	1124.5	1129.4
15°	1093.2	1093.2	1096.9	1106.7	1112.9
17.5°	1066.9	1068.7	1074.2	1084.0	1090.8
20°	1038.6	1040.5	1047.8	1058.9	1066.9
22.5°	1007.4	1009.8	1017.2	1030.7	1037.4
25°	970.5	975.5	984.0	997.5	1005.5
27.5°	932.5	938.0	946.0	962.6	969.9
30°	890.8	894.5	906.1	921.5	930.1
32.5°	846.6	850.3	860.1	878.5	885.9
35°	801.2	804.9	814.1	830.7	839.3
37.5°	752.1	755.2	766.3	779.1	788.3
40°	700.6	704.9	712.3	727.6	735.6
42.5°	650.3	652.1	660.1	675.5	681.6
45°	598.8	599.4	608.0	620.2	625.8
47.5°	545.4	546.6	557.1	564.4	569.9
50°	495.7	496.3	503.7	510.4	516.6
52.5°	446.0	446.0	449.7	457.1	465.0
55°	399.4	398.8	400.6	407.4	412.3
57.5°	355.2	354.6	357.1	361.3	365.0
60°	312.3	311.0	313.5	315.9	320.9
62.5°	274.2	275.5	272.4	276.1	279.8
65°	240.5	239.3	235.6	237.4	241.1
67.5°	211.7	209.8	203.7	204.9	209.2
70°	185.3	181.6	174.8	174.8	177.9
72.5°	161.3	157.7	149.1	149.7	150.9
75°	141.1	135.0	127.6	125.2	128.2
77.5°	119.0	114.1	107.4	105.5	106.7
80°	98.2	94.5	86.5	84.0	85.9
82.5°	77.9	74.8	65.6	63.8	64.4
85°	54.0	53.4	46.0	42.3	43.6
87.5°	28.8	29.4	23.9	21.5	22.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)