

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: P292374

Luminaire Tested: **22GR-LD5-28-A125-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292374  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33297)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22GR-LD5-28-A125-UNV-L82765-W2A1-U-2700K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2665.0 lumens  
Efficiency: N/A  
Efficacy: 120.9 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.22 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

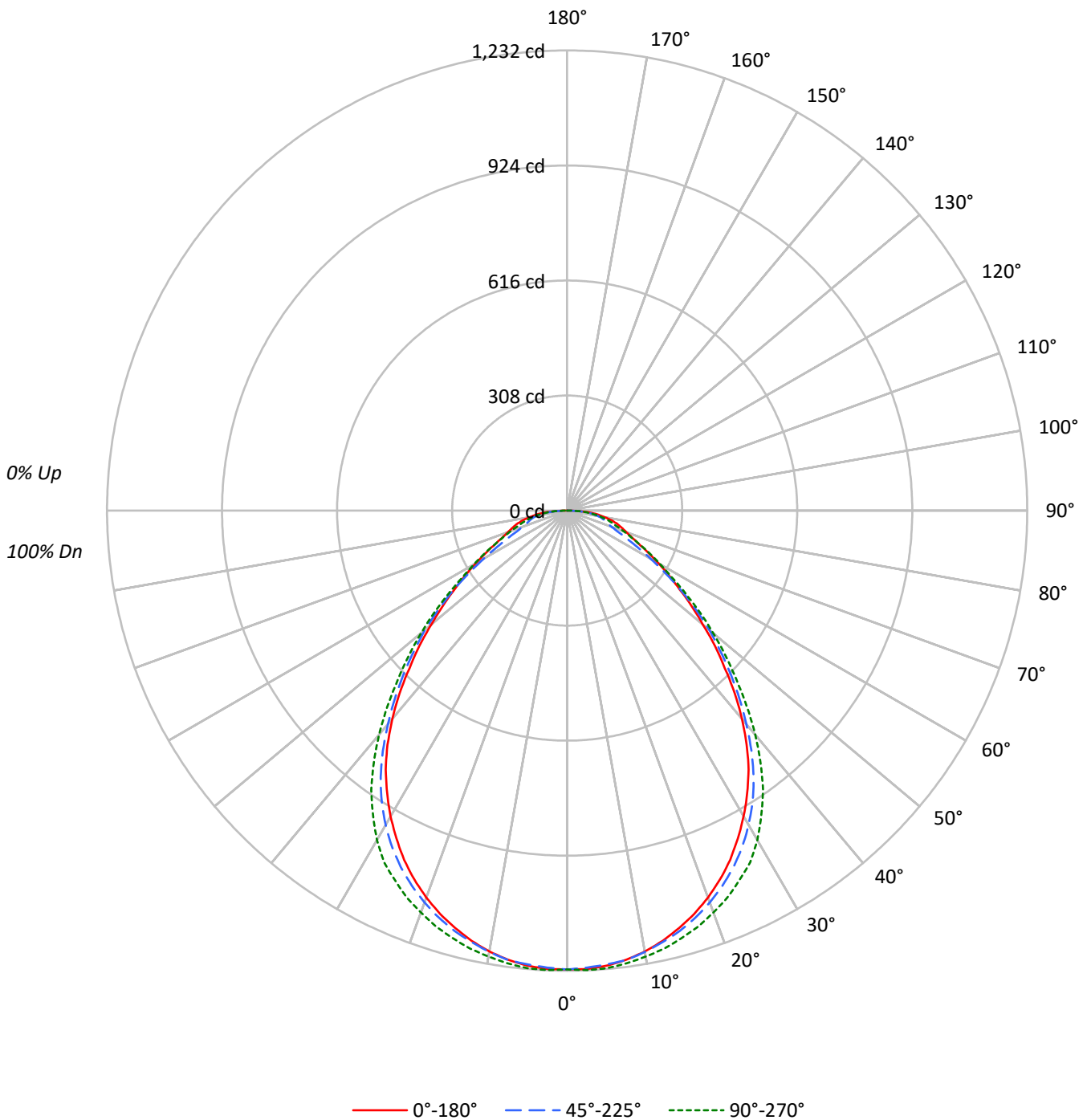
Input Watts (W): 22.041  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76	74
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49
6	74	61	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	48	42	54	47	42	52	46	41	51	46	41	39
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36
9	60	48	40	35	59	47	40	34	46	39	34	45	39	34	44	38	34	32
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	29

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3306	3306	3306
5°	3303	3295	3322
10°	3275	3279	3313
15°	3223	3246	3301
20°	3157	3198	3279
25°	3064	3127	3241
30°	2937	3020	3164
35°	2782	2860	3005
40°	2558	2622	2752
45°	2272	2355	2440
50°	1985	2076	2138
55°	1726	1749	1813
60°	1518	1391	1548
65°	1349	1112	1357
70°	1325	987	1252
75°	1447	1085	1279
80°	1588	1291	1367
85°	1899	1497	1535



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	116.1	4.4
10°-20°	329.2	12.4
20°-30°	486.0	18.2
30°-40°	543.9	20.4
40°-50°	477.6	17.9
50°-60°	338.0	12.7
60°-70°	196.7	7.4
70°-80°	122.6	4.6
80°-90°	54.8	2.1
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°	931.4	34.9
0°-40°	1475.3	55.4
0°-60°	2290.8	86.0
0°-90°	2665.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2665.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1228	1228	1228	1228	1228	
5°	1223	1220	1220	1226	1230	116
15°	1157	1160	1165	1178	1185	326
25°	1032	1036	1053	1078	1092	474
35°	847	851	870	897	915	527
45°	597	604	619	634	641	462
55°	368	375	373	380	386	332
65°	212	195	175	190	213	215
75°	139	120	104	107	123	145
85°	62	64	48	47	50	62
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1228.4	1228.4	1228.4	1228.4	1228.4
2.5°	1228.4	1225.9	1224.7	1229.1	1231.5
5°	1222.8	1219.7	1219.7	1225.9	1229.7
7.5°	1212.9	1209.8	1213.5	1219.1	1222.8
10°	1198.6	1197.4	1199.9	1207.3	1212.3
12.5°	1180.0	1180.6	1183.1	1194.9	1201.1
15°	1157.0	1159.5	1165.1	1177.5	1184.9
17.5°	1132.1	1134.0	1142.7	1157.0	1167.5
20°	1102.3	1106.0	1116.6	1134.6	1145.2
22.5°	1069.4	1073.7	1086.8	1108.5	1121.6
25°	1032.1	1036.4	1053.2	1078.1	1091.7
27.5°	989.8	996.7	1015.3	1042.6	1061.3
30°	945.1	950.7	971.8	1002.9	1018.4
32.5°	897.2	904.1	924.0	953.8	967.5
35°	846.9	850.6	870.5	896.6	914.6
37.5°	789.8	791.6	810.3	834.5	850.6
40°	728.2	729.5	746.3	769.2	783.5
42.5°	664.2	664.9	682.9	700.3	712.7
45°	597.1	604.0	618.9	633.8	641.2
47.5°	536.9	541.8	555.5	568.5	575.4
50°	474.1	486.5	495.8	502.7	510.8
52.5°	420.0	430.6	433.1	441.2	448.0
55°	367.8	375.3	372.8	379.7	386.5
57.5°	323.7	320.0	311.9	323.7	332.4
60°	282.1	272.2	258.5	274.6	287.7
62.5°	244.8	228.7	211.9	228.0	249.8
65°	211.9	195.1	174.6	190.1	213.1
67.5°	187.0	169.6	145.4	160.9	183.9
70°	168.4	150.4	125.5	138.6	159.1
72.5°	153.5	134.2	112.5	121.2	138.6
75°	139.2	119.9	104.4	106.9	123.0
77.5°	122.4	108.1	95.7	94.4	106.9
80°	102.5	98.2	83.3	81.4	88.2
82.5°	84.5	82.6	68.3	66.5	69.0
85°	61.5	64.0	48.5	47.2	49.7
87.5°	32.3	35.4	25.5	26.7	27.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)