

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: P292474

Luminaire Tested: **22GR-LD5-28-A125-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292474  
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-L92765-W2A1-U-3500K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2484.0 lumens  
Efficiency: N/A  
Efficacy: 112.2 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

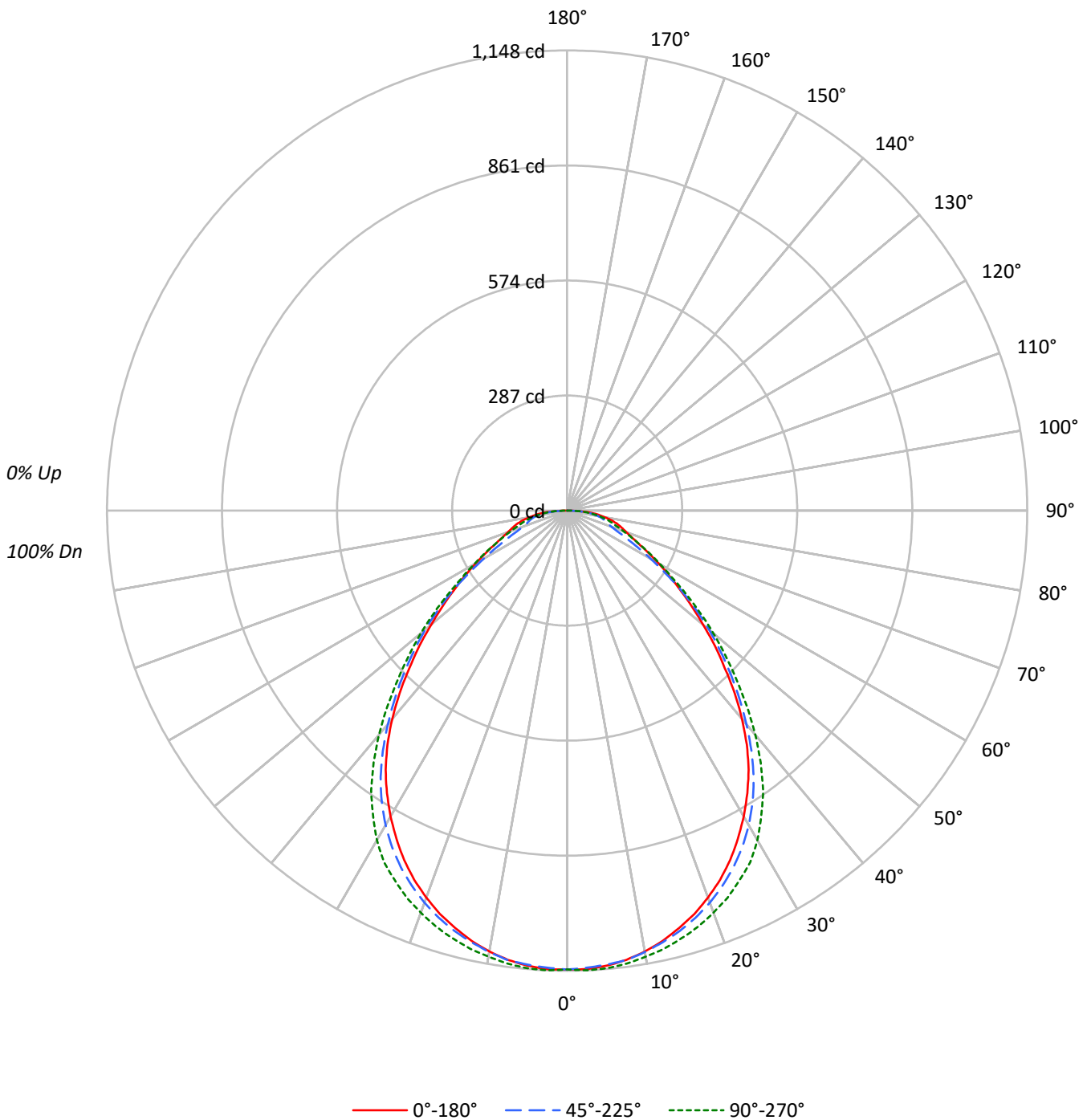
Input Watts (W): 22.134  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3081	3081	3081
5°	3079	3071	3096
10°	3053	3056	3087
15°	3004	3025	3077
20°	2942	2981	3057
25°	2856	2915	3021
30°	2737	2815	2949
35°	2593	2666	2801
40°	2385	2444	2565
45°	2118	2195	2275
50°	1850	1935	1993
55°	1609	1630	1690
60°	1415	1297	1443
65°	1258	1036	1265
70°	1235	921	1167
75°	1349	1012	1193
80°	1481	1203	1274
85°	1769	1396	1430



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	108.2	4.4
10°-20°	306.9	12.4
20°-30°	453.0	18.2
30°-40°	506.9	20.4
40°-50°	445.2	17.9
50°-60°	315.0	12.7
60°-70°	183.4	7.4
70°-80°	114.3	4.6
80°-90°	51.1	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°	868.1	34.9
0°-40°	1375.1	55.4
0°-60°	2135.2	86.0
0°-90°	2484.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2484.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1145	1145	1145	1145	1145	
5°	1140	1137	1137	1143	1146	108
15°	1078	1081	1086	1098	1104	304
25°	962	966	982	1005	1018	442
35°	789	793	811	836	852	491
45°	557	563	577	591	598	430
55°	343	350	348	354	360	310
65°	198	182	163	177	199	200
75°	130	112	97	100	115	135
85°	57	60	45	44	46	58
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1145.0	1145.0	1145.0	1145.0	1145.0
2.5°	1145.0	1142.7	1141.5	1145.6	1147.9
5°	1139.8	1136.9	1136.9	1142.7	1146.2
7.5°	1130.5	1127.6	1131.1	1136.3	1139.8
10°	1117.2	1116.0	1118.4	1125.3	1129.9
12.5°	1099.8	1100.4	1102.7	1113.7	1119.5
15°	1078.4	1080.7	1085.9	1097.5	1104.5
17.5°	1055.2	1057.0	1065.1	1078.4	1088.2
20°	1027.4	1030.9	1040.8	1057.5	1067.4
22.5°	996.7	1000.8	1013.0	1033.2	1045.4
25°	962.0	966.0	981.7	1004.8	1017.6
27.5°	922.6	929.0	946.3	971.8	989.2
30°	880.9	886.1	905.8	934.8	949.2
32.5°	836.3	842.7	861.2	889.0	901.8
35°	789.4	792.9	811.4	835.7	852.5
37.5°	736.1	737.9	755.2	777.8	792.9
40°	678.8	679.9	695.6	717.0	730.3
42.5°	619.1	619.7	636.5	652.7	664.3
45°	556.6	562.9	576.8	590.7	597.7
47.5°	500.4	505.0	517.8	529.9	536.3
50°	441.9	453.5	462.2	468.5	476.1
52.5°	391.5	401.4	403.7	411.2	417.6
55°	342.9	349.8	347.5	353.9	360.2
57.5°	301.7	298.3	290.7	301.7	309.9
60°	262.9	253.7	240.9	256.0	268.2
62.5°	228.2	213.1	197.5	212.6	232.8
65°	197.5	181.9	162.7	177.2	198.7
67.5°	174.3	158.1	135.5	150.0	171.4
70°	157.0	140.2	117.0	129.2	148.3
72.5°	143.1	125.1	104.8	112.9	129.2
75°	129.7	111.8	97.3	99.6	114.7
77.5°	114.1	100.8	89.2	88.0	99.6
80°	95.6	91.5	77.6	75.9	82.2
82.5°	78.8	77.0	63.7	62.0	64.3
85°	57.3	59.7	45.2	44.0	46.3
87.5°	30.1	33.0	23.7	24.9	25.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)