

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: P292478

Luminaire Tested: **22GR-LD5-28-A125-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292478  
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-5500K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2726.0 lumens  
Efficiency: N/A  
Efficacy: 120.1 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

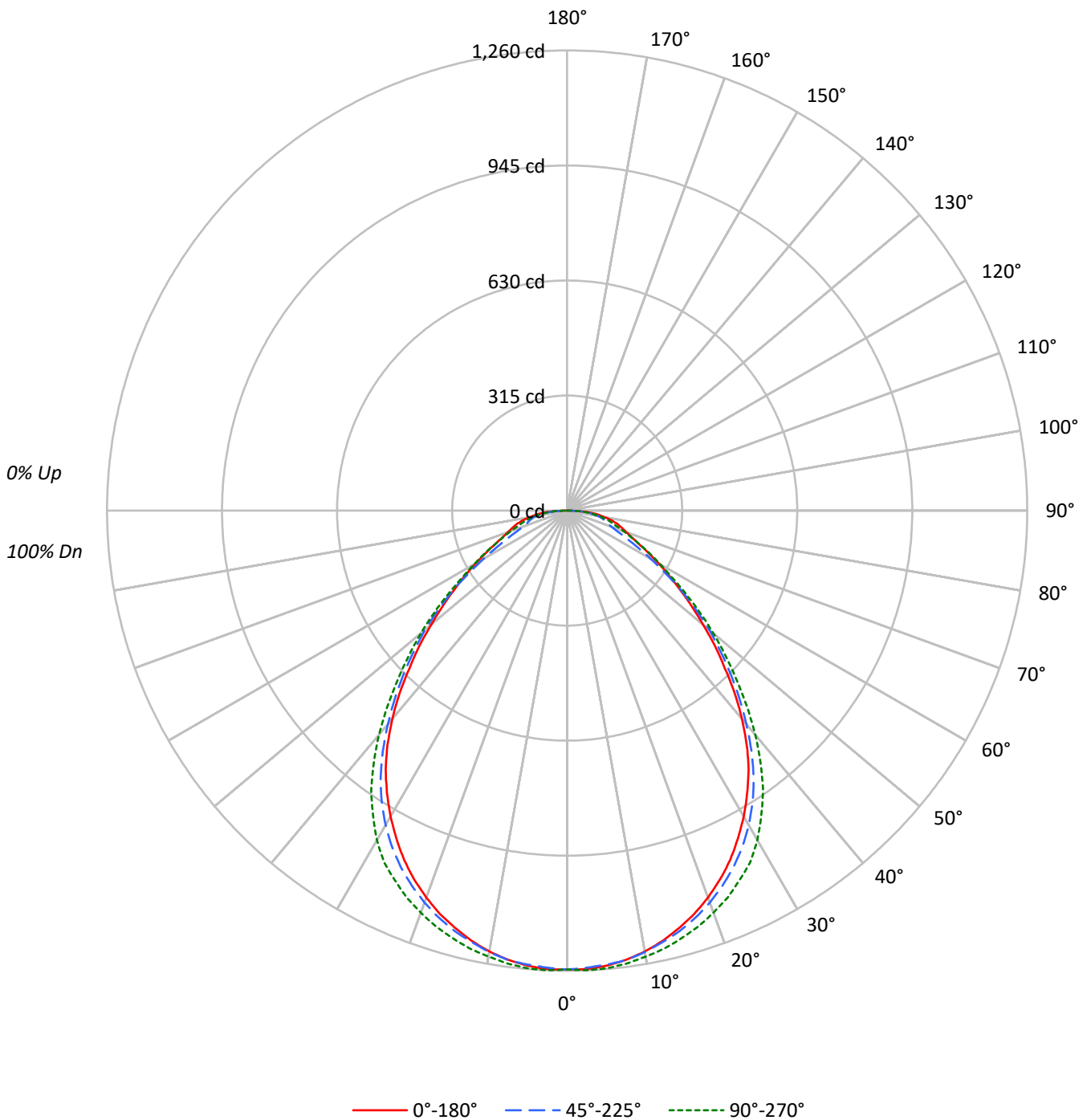
Input Watts (W): 22.692  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3381	3381	3381
5°	3379	3370	3398
10°	3350	3354	3388
15°	3297	3320	3377
20°	3229	3271	3355
25°	3135	3199	3316
30°	3004	3089	3237
35°	2846	2925	3074
40°	2617	2681	2816
45°	2324	2409	2496
50°	2030	2123	2187
55°	1765	1789	1855
60°	1553	1423	1584
65°	1380	1137	1388
70°	1355	1010	1280
75°	1481	1110	1308
80°	1626	1320	1399
85°	1942	1531	1568



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	118.8	4.4
10°-20°	336.8	12.4
20°-30°	497.2	18.2
30°-40°	556.3	20.4
40°-50°	488.5	17.9
50°-60°	345.7	12.7
60°-70°	201.2	7.4
70°-80°	125.4	4.6
80°-90°	56.1	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°	952.7	34.9
0°-40°	1509.0	55.4
0°-60°	2343.3	86.0
0°-90°	2726.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2726.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1257	1257	1257	1257	1257	
5°	1251	1248	1248	1254	1258	119
15°	1184	1186	1192	1204	1212	333
25°	1056	1060	1077	1103	1117	485
35°	866	870	890	917	936	539
45°	611	618	633	648	656	472
55°	376	384	381	388	395	340
65°	217	200	179	194	218	220
75°	142	123	107	109	126	149
85°	63	66	50	48	51	64
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1256.6	1256.6	1256.6	1256.6	1256.6
2.5°	1256.6	1254.0	1252.7	1257.2	1259.7
5°	1250.8	1247.7	1247.7	1254.0	1257.8
7.5°	1240.7	1237.5	1241.3	1247.0	1250.8
10°	1226.0	1224.8	1227.3	1234.9	1240.0
12.5°	1207.0	1207.6	1210.2	1222.2	1228.6
15°	1183.5	1186.0	1191.7	1204.4	1212.1
17.5°	1158.0	1159.9	1168.8	1183.5	1194.3
20°	1127.5	1131.3	1142.1	1160.6	1171.4
22.5°	1093.8	1098.3	1111.6	1133.9	1147.2
25°	1055.7	1060.2	1077.3	1102.7	1116.7
27.5°	1012.5	1019.5	1038.5	1066.5	1085.6
30°	966.7	972.4	994.1	1025.8	1041.7
32.5°	917.8	924.8	945.1	975.6	989.6
35°	866.3	870.1	890.5	917.1	935.6
37.5°	807.8	809.7	828.8	853.6	870.1
40°	744.9	746.2	763.3	786.9	801.5
42.5°	679.4	680.1	698.5	716.3	729.0
45°	610.8	617.8	633.0	648.3	655.9
47.5°	549.1	554.2	568.2	581.6	588.6
50°	485.0	497.7	507.2	514.2	522.5
52.5°	429.7	440.5	443.0	451.3	458.3
55°	376.3	383.9	381.4	388.3	395.3
57.5°	331.1	327.3	319.1	331.1	340.0
60°	288.6	278.4	264.4	280.9	294.3
62.5°	250.4	233.9	216.7	233.3	255.5
65°	216.7	199.6	178.6	194.5	218.0
67.5°	191.3	173.5	148.7	164.6	188.1
70°	172.2	153.8	128.4	141.7	162.7
72.5°	157.0	137.3	115.0	123.9	141.7
75°	142.4	122.7	106.8	109.3	125.8
77.5°	125.2	110.6	97.9	96.6	109.3
80°	104.9	100.4	85.2	83.3	90.3
82.5°	86.4	84.5	69.9	68.0	70.5
85°	62.9	65.5	49.6	48.3	50.8
87.5°	33.1	36.2	26.1	27.3	28.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)