

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: P292477

Luminaire Tested: **22GR-LD5-28-A125-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292477  
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-5000K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2684.0 lumens  
Efficiency: N/A  
Efficacy: 118.8 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

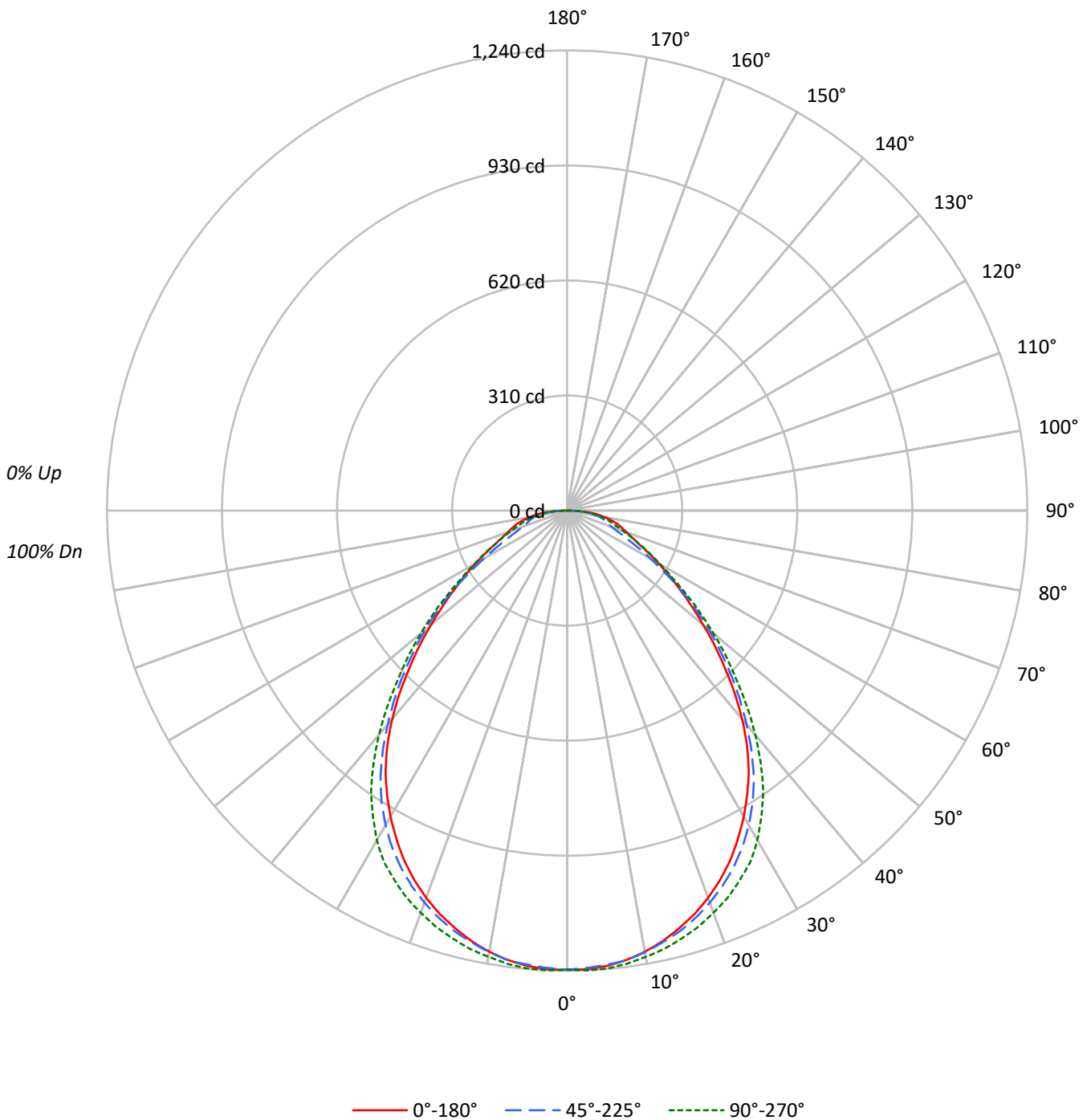
Input Watts (W): 22.599  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3329	3329	3329
5°	3327	3318	3345
10°	3299	3302	3336
15°	3246	3269	3325
20°	3179	3220	3303
25°	3086	3149	3265
30°	2958	3041	3187
35°	2802	2880	3026
40°	2576	2640	2772
45°	2289	2372	2458
50°	1999	2091	2153
55°	1738	1762	1826
60°	1529	1401	1559
65°	1359	1119	1366
70°	1334	995	1260
75°	1458	1093	1288
80°	1601	1300	1378
85°	1914	1507	1547



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	116.9	4.4
10°-20°	331.6	12.4
20°-30°	489.5	18.2
30°-40°	547.8	20.4
40°-50°	481.0	17.9
50°-60°	340.4	12.7
60°-70°	198.1	7.4
70°-80°	123.5	4.6
80°-90°	55.3	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°	938.0	34.9
0°-40°	1485.8	55.4
0°-60°	2307.2	86.0
0°-90°	2684.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2684.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1237	1237	1237	1237	1237	
5°	1232	1228	1228	1235	1238	117
15°	1165	1168	1173	1186	1193	328
25°	1039	1044	1061	1086	1100	477
35°	853	857	877	903	921	530
45°	601	608	623	638	646	465
55°	370	378	376	382	389	335
65°	213	196	176	192	215	216
75°	140	121	105	108	124	146
85°	62	64	49	48	50	63
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1237.2	1237.2	1237.2	1237.2	1237.2
2.5°	1237.2	1234.7	1233.4	1237.8	1240.3
5°	1231.6	1228.4	1228.4	1234.7	1238.4
7.5°	1221.5	1218.4	1222.2	1227.8	1231.6
10°	1207.2	1205.9	1208.4	1215.9	1220.9
12.5°	1188.4	1189.0	1191.5	1203.4	1209.7
15°	1165.2	1167.7	1173.4	1185.9	1193.4
17.5°	1140.2	1142.1	1150.8	1165.2	1175.9
20°	1110.2	1113.9	1124.5	1142.7	1153.3
22.5°	1077.0	1081.4	1094.5	1116.4	1129.6
25°	1039.4	1043.8	1060.7	1085.7	1099.5
27.5°	996.9	1003.8	1022.5	1050.1	1068.9
30°	951.8	957.5	978.7	1010.0	1025.7
32.5°	903.6	910.5	930.6	960.6	974.4
35°	853.0	856.7	876.7	903.0	921.2
37.5°	795.4	797.3	816.0	840.4	856.7
40°	733.4	734.7	751.6	774.7	789.1
42.5°	669.0	669.6	687.7	705.3	717.8
45°	601.4	608.3	623.3	638.3	645.8
47.5°	540.7	545.7	559.5	572.6	579.5
50°	477.5	490.0	499.4	506.3	514.4
52.5°	423.0	433.7	436.2	444.3	451.2
55°	370.5	378.0	375.5	382.4	389.2
57.5°	326.0	322.3	314.1	326.0	334.8
60°	284.1	274.1	260.3	276.6	289.7
62.5°	246.6	230.3	213.4	229.7	251.6
65°	213.4	196.5	175.8	191.5	214.6
67.5°	188.4	170.8	146.4	162.1	185.2
70°	169.6	151.4	126.4	139.6	160.2
72.5°	154.6	135.2	113.3	122.0	139.6
75°	140.2	120.8	105.1	107.6	123.9
77.5°	123.3	108.9	96.4	95.1	107.6
80°	103.3	98.9	83.9	82.0	88.9
82.5°	85.1	83.2	68.8	67.0	69.5
85°	62.0	64.5	48.8	47.6	50.1
87.5°	32.5	35.7	25.7	26.9	27.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)