

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: P292475

Luminaire Tested: **22GR-LD5-28-A125-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292475  
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-4000K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2565.0 lumens  
Efficiency: N/A  
Efficacy: 114.9 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

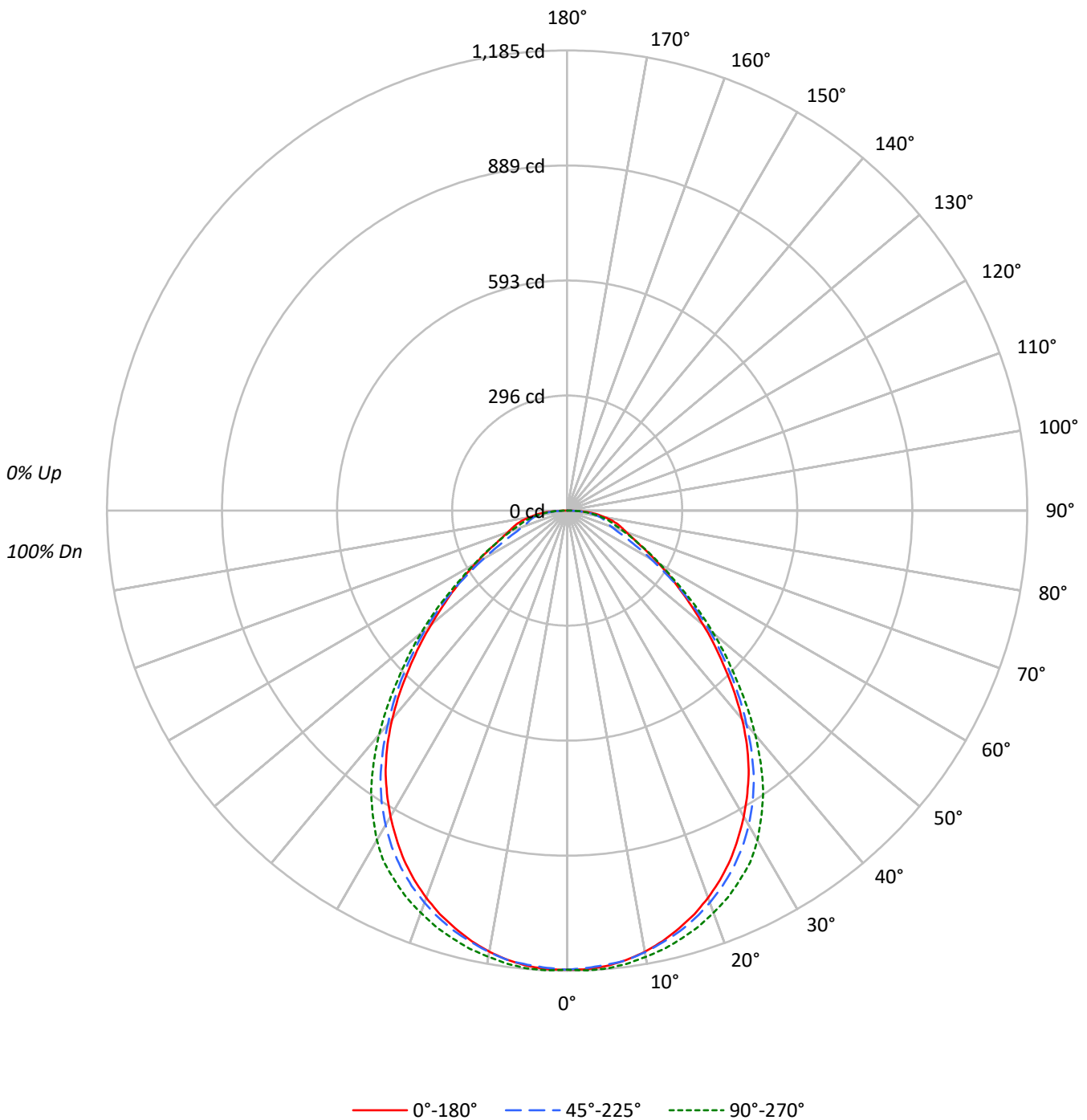
Input Watts (W): 22.32  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86					86			
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76	74					74			
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	70	66	64					64			
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56					56			
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49					49			
6	74	61	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44					44			
7	69	56	48	42	67	55	48	42	54	47	42	52	46	41	51	46	41	39					39			
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36					36			
9	60	48	40	35	59	47	40	34	46	39	34	45	39	34	44	38	34	32					32			
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	29					29			

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

	0°	45°	90°
0°	3182	3182	3182
5°	3179	3171	3197
10°	3152	3155	3188
15°	3102	3124	3177
20°	3038	3078	3156
25°	2950	3010	3120
30°	2826	2906	3046
35°	2678	2753	2892
40°	2462	2523	2649
45°	2187	2267	2349
50°	1910	1998	2058
55°	1661	1683	1745
60°	1461	1339	1490
65°	1298	1070	1306
70°	1275	950	1205
75°	1393	1045	1231
80°	1530	1241	1316
85°	1828	1439	1476



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	111.7	4.4
10°-20°	316.9	12.4
20°-30°	467.8	18.2
30°-40°	523.5	20.4
40°-50°	459.7	17.9
50°-60°	325.3	12.7
60°-70°	189.3	7.4
70°-80°	118.0	4.6
80°-90°	52.8	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°	896.4	34.9
0°-40°	1419.9	55.4
0°-60°	2204.9	86.0
0°-90°	2565.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2565.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1182	1182	1182	1182	1182	
5°	1177	1174	1174	1180	1184	112
15°	1114	1116	1121	1133	1140	314
25°	993	998	1014	1038	1051	456
35°	815	819	838	863	880	507
45°	575	581	596	610	617	445
55°	354	361	359	365	372	320
65°	204	188	168	183	205	207
75°	134	115	100	103	118	140
85°	59	62	47	46	48	60
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1182.3	1182.3	1182.3	1182.3	<i>1182.3</i>
2.5°	<i>1182.3</i>	<i>1179.9</i>	<i>1178.7</i>	<i>1182.9</i>	<i>1185.3</i>
5°	1177.0	1174.0	1174.0	1179.9	<i>1183.5</i>
7.5°	1167.4	1164.4	1168.0	1173.4	<i>1177.0</i>
10°	1153.6	1152.4	1154.8	1162.0	<i>1166.8</i>
12.5°	1135.7	1136.3	1138.7	1150.0	<i>1156.0</i>
15°	1113.6	1116.0	1121.3	1133.3	<i>1140.5</i>
17.5°	1089.6	1091.4	1099.8	1113.6	<i>1123.7</i>
20°	1060.9	1064.5	1074.7	1092.0	<i>1102.2</i>
22.5°	1029.2	1033.4	1046.0	1066.9	<i>1079.5</i>
25°	993.4	997.5	1013.7	1037.6	<i>1050.8</i>
27.5°	952.7	959.3	977.2	1003.5	<i>1021.5</i>
30°	909.6	915.0	935.3	965.2	<i>980.2</i>
32.5°	863.6	870.2	889.3	918.0	<i>931.2</i>
35°	815.1	818.7	837.9	863.0	<i>880.3</i>
37.5°	760.1	761.9	779.9	803.2	<i>818.7</i>
40°	700.9	702.1	718.3	740.4	<i>754.1</i>
42.5°	639.3	639.9	657.3	674.0	<i>686.0</i>
45°	574.7	581.3	595.7	610.0	<i>617.2</i>
47.5°	516.7	521.5	534.7	547.2	<i>553.8</i>
50°	456.3	468.3	477.2	483.8	<i>491.6</i>
52.5°	404.3	414.4	416.8	424.6	<i>431.2</i>
55°	354.0	361.2	358.8	365.4	<i>372.0</i>
57.5°	311.6	308.0	300.2	311.6	<i>320.0</i>
60°	271.5	261.9	248.8	264.3	<i>276.9</i>
62.5°	235.6	220.1	203.9	219.5	<i>240.4</i>
65°	203.9	187.8	168.1	183.0	<i>205.1</i>
67.5°	180.0	163.3	139.9	154.9	<i>177.0</i>
70°	162.1	144.7	120.8	133.4	<i>153.1</i>
72.5°	147.7	129.2	108.2	116.6	<i>133.4</i>
75°	134.0	115.4	100.5	102.9	<i>118.4</i>
77.5°	117.8	104.1	92.1	90.9	<i>102.9</i>
80°	98.7	94.5	80.1	78.3	<i>84.9</i>
82.5°	81.3	79.5	65.8	64.0	<i>66.4</i>
85°	59.2	61.6	46.6	45.5	<i>47.8</i>
87.5°	31.1	34.1	24.5	25.7	<i>26.3</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)