

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: P292042

Luminaire Tested: **22GR-LD5-32-F125-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292042  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33295)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22GR-LD5-32-F125-UNV-L93050-W2A1-U-3000K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2507.0 lumens  
Efficiency: N/A  
Efficacy: 99.8 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.19 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

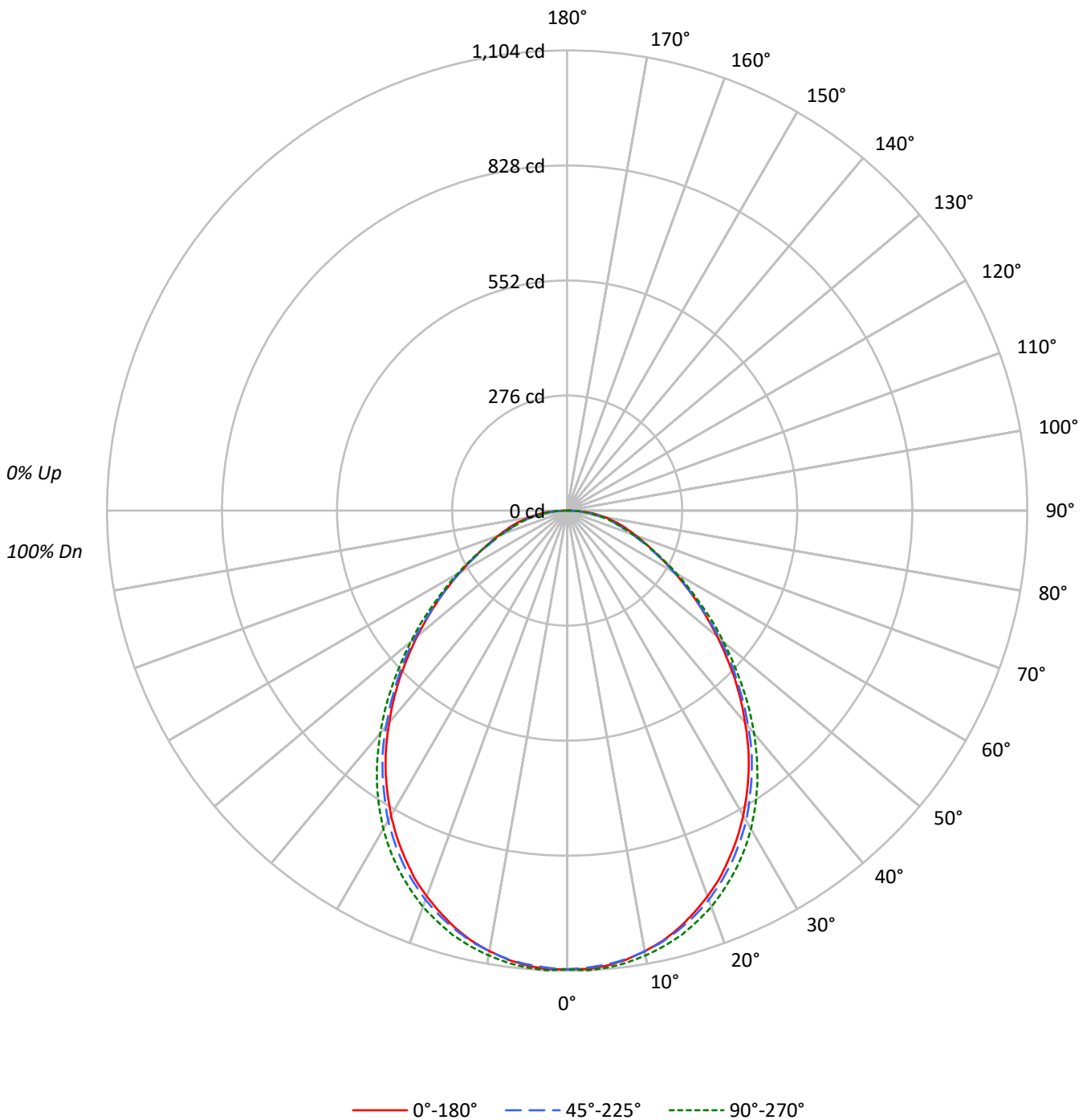
Input Watts (W): 25.11  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P292042

CATALOG NUMBER: 22GR-LD5-32-F125-UNV-L93050-W2A1-U-3000K

### Luminous Intensity Polar Plot





TEST NUMBER: P292042

CATALOG NUMBER: 22GR-LD5-32-F125-UNV-L93050-W2A1-U-3000K

**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	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85					85			
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73					73			
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62					62			
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54					54			
5	78	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	50	48					48			
6	73	60	52	45	71	59	51	45	57	50	45	56	49	45	54	49	44	42					42			
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38					38			
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34					34			
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31					31			
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28					28			

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

	0°	45°	90°
0°	2962	2962	2962
5°	2960	2952	2973
10°	2933	2934	2961
15°	2888	2898	2940
20°	2820	2845	2897
25°	2733	2771	2831
30°	2624	2670	2740
35°	2496	2536	2614
40°	2334	2373	2450
45°	2160	2194	2258
50°	1968	1999	2051
55°	1777	1782	1834
60°	1594	1600	1637
65°	1452	1422	1456
70°	1382	1304	1327
75°	1391	1258	1264
80°	1443	1271	1261
85°	1581	1346	1275



TEST NUMBER: P292042

CATALOG NUMBER: 22GR-LD5-32-F125-UNV-L93050-W2A1-U-3000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.0	4.1
10°-20°	293.7	11.7
20°-30°	429.9	17.1
30°-40°	483.4	19.3
40°-50°	445.8	17.8
50°-60°	343.6	13.7
60°-70°	226.7	9.0
70°-80°	132.0	5.3
80°-90°	48.1	1.9
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°	827.6	33.0
0°-40°	1311.0	52.3
0°-60°	2100.3	83.8
0°-90°	2507.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2507.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1101	1101	1101	1101	1101	
5°	1096	1094	1093	1098	1101	104
15°	1037	1037	1040	1049	1055	292
25°	920	925	933	946	953	423
35°	760	763	772	788	796	474
45°	568	568	576	588	593	437
55°	379	378	380	386	391	340
65°	228	227	223	225	229	229
75°	134	128	121	119	122	141
85°	51	51	44	40	41	54
90°	0	0	0	0	0	



TEST NUMBER: P292042

CATALOG NUMBER: 22GR-LD5-32-F125-UNV-L93050-W2A1-U-3000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1100.6	1100.6	1100.6	1100.6	<i>1100.6</i>
2.5°	<i>1100.6</i>	<i>1098.3</i>	<i>1097.7</i>	<i>1101.7</i>	<i>1104.1</i>
5°	1095.9	1093.6	1093.0	1098.3	<i>1100.6</i>
7.5°	1086.6	1084.9	1085.5	1091.3	<i>1094.2</i>
10°	1073.2	1072.7	1073.8	1080.2	<i>1083.7</i>
12.5°	1057.5	1057.0	1059.3	1066.3	<i>1070.9</i>
15°	1036.6	1036.6	1040.1	1049.4	<i>1055.2</i>
17.5°	1011.6	1013.3	1018.6	1027.9	<i>1034.3</i>
20°	984.8	986.6	993.5	1004.0	<i>1011.6</i>
22.5°	955.2	957.5	964.5	977.3	<i>983.7</i>
25°	920.3	924.9	933.1	945.9	<i>953.4</i>
27.5°	884.2	889.4	897.0	912.7	<i>919.7</i>
30°	844.6	848.1	859.2	873.7	<i>881.9</i>
32.5°	802.8	806.2	815.5	833.0	<i>840.0</i>
35°	759.7	763.2	771.9	787.6	<i>795.8</i>
37.5°	713.2	716.1	726.5	738.8	<i>747.5</i>
40°	664.3	668.4	675.4	689.9	<i>697.5</i>
42.5°	616.6	618.4	625.9	640.5	<i>646.3</i>
45°	567.7	568.3	576.5	588.1	<i>593.3</i>
47.5°	517.1	518.3	528.2	535.2	<i>540.4</i>
50°	470.0	470.6	477.6	484.0	<i>489.8</i>
52.5°	422.9	422.9	426.4	433.4	<i>440.9</i>
55°	378.7	378.1	379.9	386.3	<i>390.9</i>
57.5°	336.8	336.2	338.6	342.6	<i>346.1</i>
60°	296.1	294.9	297.3	299.6	<i>304.2</i>
62.5°	260.0	261.2	258.3	261.8	<i>265.3</i>
65°	228.0	226.9	223.4	225.1	<i>228.6</i>
67.5°	200.7	198.9	193.1	194.3	<i>198.4</i>
70°	175.7	172.2	165.8	165.8	<i>168.7</i>
72.5°	153.0	149.5	141.4	141.9	<i>143.1</i>
75°	133.8	128.0	121.0	118.7	<i>121.6</i>
77.5°	112.9	108.2	101.8	100.1	<i>101.2</i>
80°	93.1	89.6	82.0	79.7	<i>81.4</i>
82.5°	73.9	71.0	62.2	60.5	<i>61.1</i>
85°	51.2	50.6	43.6	40.1	<i>41.3</i>
87.5°	27.3	27.9	22.7	20.4	<i>21.5</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)