

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: P292322

Luminaire Tested: **22GR-LD5-20-A125-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292322  
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-LD5-20-A125-UNV-L83050-W2A1-U-3500K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2069.0 lumens  
Efficiency: N/A  
Efficacy: 134.0 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

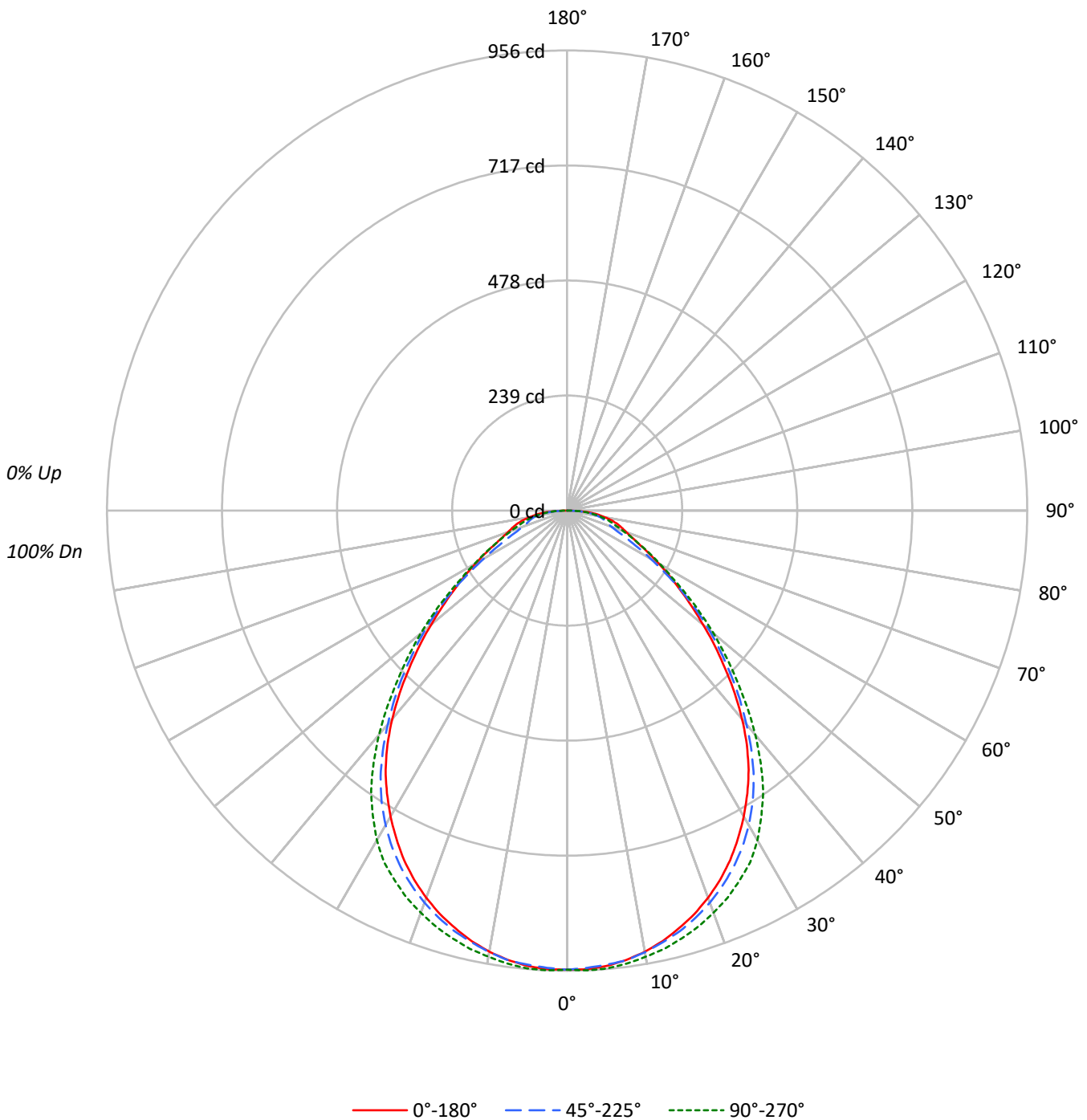
Input Watts (W): 15.438  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P292322

CATALOG NUMBER: 22GR-LD5-20-A125-UNV-L83050-W2A1-U-3500K

### Luminous Intensity Polar Plot





TEST NUMBER: P292322

CATALOG NUMBER: 22GR-LD5-20-A125-UNV-L83050-W2A1-U-3500K

**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°	2566	2566	2566
5°	2565	2558	2579
10°	2543	2545	2572
15°	2502	2520	2563
20°	2451	2483	2546
25°	2379	2428	2517
30°	2280	2344	2457
35°	2160	2220	2333
40°	1986	2035	2137
45°	1764	1829	1894
50°	1541	1612	1660
55°	1340	1358	1408
60°	1179	1080	1202
65°	1047	863	1054
70°	1028	766	972
75°	1124	842	993
80°	1234	1001	1062
85°	1476	1161	1192



TEST NUMBER: P292322

CATALOG NUMBER: 22GR-LD5-20-A125-UNV-L83050-W2A1-U-3500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.1	4.4
10°-20°	255.6	12.4
20°-30°	377.4	18.2
30°-40°	422.3	20.4
40°-50°	370.8	17.9
50°-60°	262.4	12.7
60°-70°	152.7	7.4
70°-80°	95.2	4.6
80°-90°	42.6	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°	723.1	34.9
0°-40°	1145.3	55.4
0°-60°	1778.5	86.0
0°-90°	2069.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2069.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	954	954	954	954	954	
5°	949	947	947	952	955	90
15°	898	900	904	914	920	253
25°	801	805	818	837	848	368
35°	658	660	676	696	710	409
45°	464	469	480	492	498	359
55°	286	291	289	295	300	258
65°	164	152	136	148	166	167
75°	108	93	81	83	96	113
85°	48	50	38	37	39	49
90°	0	0	0	0	0	



TEST NUMBER: P292322

CATALOG NUMBER: 22GR-LD5-20-A125-UNV-L83050-W2A1-U-3500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	953.7	953.7	953.7	953.7	953.7
2.5°	953.7	951.8	950.8	954.2	956.1
5°	949.4	947.0	947.0	951.8	954.7
7.5°	941.6	939.2	942.1	946.5	949.4
10°	930.6	929.6	931.5	937.3	941.2
12.5°	916.1	916.6	918.5	927.7	932.5
15°	898.2	900.2	904.5	914.1	919.9
17.5°	878.9	880.4	887.1	898.2	906.4
20°	855.8	858.7	866.9	880.9	889.1
22.5°	830.2	833.6	843.7	860.6	870.7
25°	801.3	804.6	817.7	837.0	847.6
27.5°	768.5	773.8	788.2	809.5	823.9
30°	733.7	738.1	754.5	778.6	790.7
32.5°	696.6	701.9	717.3	740.5	751.1
35°	657.5	660.4	675.8	696.1	710.1
37.5°	613.1	614.6	629.1	647.9	660.4
40°	565.4	566.3	579.4	597.2	608.3
42.5°	515.7	516.2	530.2	543.7	553.3
45°	463.6	468.9	480.5	492.0	497.8
47.5°	416.8	420.7	431.3	441.4	446.7
50°	368.1	377.7	385.0	390.3	396.5
52.5°	326.1	334.3	336.2	342.5	347.8
55°	285.6	291.4	289.4	294.7	300.1
57.5°	251.3	248.4	242.2	251.3	258.1
60°	219.0	211.3	200.7	213.2	223.4
62.5°	190.1	177.5	164.5	177.0	193.9
65°	164.5	151.5	135.6	147.6	165.5
67.5°	145.2	131.7	112.9	124.9	142.8
70°	130.7	116.7	97.4	107.6	123.5
72.5°	119.2	104.2	87.3	94.1	107.6
75°	108.1	93.1	81.0	83.0	95.5
77.5°	95.0	83.9	74.3	73.3	83.0
80°	79.6	76.2	64.6	63.2	68.5
82.5°	65.6	64.2	53.1	51.6	53.5
85°	47.8	49.7	37.6	36.7	38.6
87.5°	25.1	27.5	19.8	20.7	21.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)