

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: P292455

Luminaire Tested: **22GR-LD5-20-A125-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292455  
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-L92765-W2A1-U-3000K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1686.0 lumens  
Efficiency: N/A  
Efficacy: 110.5 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

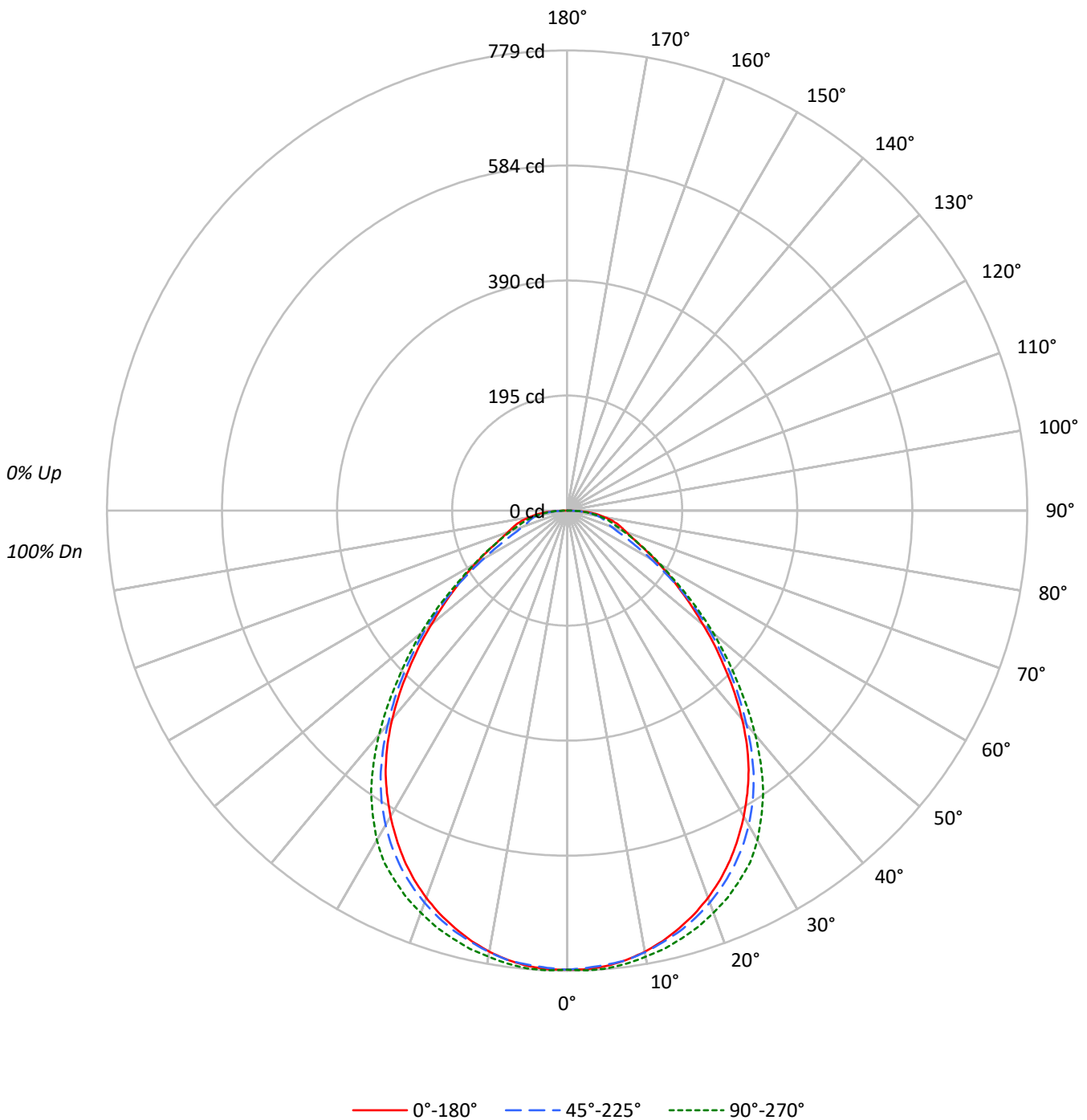
Input Watts (W): 15.252  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P292455

CATALOG NUMBER: 22GR-LD5-20-A125-UNV-L92765-W2A1-U-3000K

### Luminous Intensity Polar Plot





TEST NUMBER: P292455

CATALOG NUMBER: 22GR-LD5-20-A125-UNV-L92765-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	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°	2091	2091	2091
5°	2090	2085	2101
10°	2072	2074	2096
15°	2039	2053	2088
20°	1997	2023	2075
25°	1939	1978	2051
30°	1858	1910	2002
35°	1760	1809	1901
40°	1618	1658	1741
45°	1438	1490	1544
50°	1256	1313	1353
55°	1092	1107	1147
60°	961	880	980
65°	853	704	858
70°	838	625	792
75°	916	686	809
80°	1006	817	865
85°	1201	948	969



TEST NUMBER: P292455

CATALOG NUMBER: 22GR-LD5-20-A125-UNV-L92765-W2A1-U-3000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.4	4.4
10°-20°	208.3	12.4
20°-30°	307.5	18.2
30°-40°	344.1	20.4
40°-50°	302.2	17.9
50°-60°	213.8	12.7
60°-70°	124.4	7.4
70°-80°	77.6	4.6
80°-90°	34.7	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°	589.2	34.9
0°-40°	933.3	55.4
0°-60°	1449.3	86.0
0°-90°	1686.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1686.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	777	777	777	777	777	
5°	774	772	772	776	778	73
15°	732	734	737	745	750	206
25°	653	656	666	682	691	300
35°	536	538	551	567	579	333
45°	378	382	392	401	406	292
55°	233	237	236	240	244	210
65°	134	123	110	120	135	136
75°	88	76	66	68	78	92
85°	39	40	31	30	31	40
90°	0	0	0	0	0	



TEST NUMBER: P292455

CATALOG NUMBER: 22GR-LD5-20-A125-UNV-L92765-W2A1-U-3000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	777.2	777.2	777.2	777.2	777.2
2.5°	777.2	775.6	774.8	777.6	779.1
5°	773.6	771.7	771.7	775.6	777.9
7.5°	767.3	765.4	767.7	771.3	773.6
10°	758.3	757.5	759.1	763.8	766.9
12.5°	746.5	746.9	748.5	755.9	759.9
15°	732.0	733.5	737.1	744.9	749.6
17.5°	716.2	717.4	722.9	732.0	738.6
20°	697.4	699.7	706.4	717.8	724.5
22.5°	676.5	679.3	687.5	701.3	709.5
25°	652.9	655.7	666.3	682.0	690.7
27.5°	626.2	630.5	642.3	659.6	671.4
30°	597.9	601.4	614.8	634.5	644.3
32.5°	567.6	572.0	584.5	603.4	612.1
35°	535.8	538.2	550.7	567.2	578.6
37.5°	499.6	500.8	512.6	527.9	538.2
40°	460.7	461.5	472.1	486.7	495.7
42.5°	420.2	420.6	432.0	443.0	450.9
45°	377.8	382.1	391.5	401.0	405.7
47.5°	339.6	342.8	351.4	359.7	364.0
50°	299.9	307.8	313.7	318.0	323.1
52.5°	265.7	272.4	274.0	279.1	283.4
55°	232.7	237.4	235.9	240.2	244.5
57.5°	204.8	202.4	197.3	204.8	210.3
60°	178.5	172.2	163.5	173.8	182.0
62.5°	154.9	144.7	134.0	144.3	158.0
65°	134.0	123.4	110.5	120.3	134.8
67.5°	118.3	107.3	92.0	101.8	116.4
70°	106.5	95.1	79.4	87.7	100.6
72.5°	97.1	84.9	71.2	76.7	87.7
75°	88.1	75.9	66.0	67.6	77.8
77.5°	77.4	68.4	60.5	59.8	67.6
80°	64.9	62.1	52.7	51.5	55.8
82.5°	53.5	52.3	43.2	42.1	43.6
85°	38.9	40.5	30.7	29.9	31.4
87.5°	20.4	22.4	16.1	16.9	17.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)