

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: P292457

Luminaire Tested: **22GR-LD5-20-A125-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292457  
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-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: 1827.0 lumens  
Efficiency: N/A  
Efficacy: 116.9 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

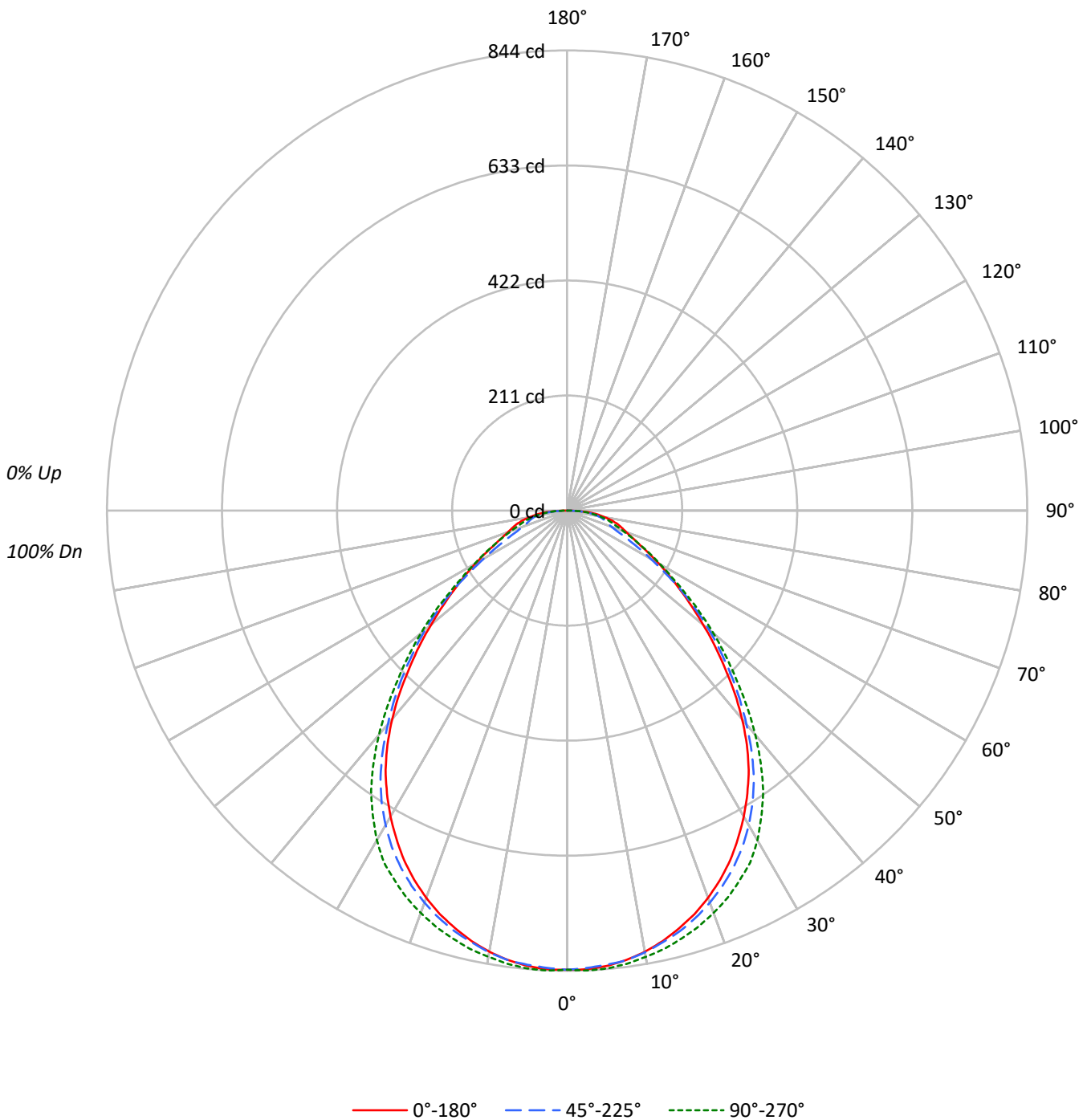
Input Watts (W): 15.624  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P292457

CATALOG NUMBER: 22GR-LD5-20-A125-UNV-L92765-W2A1-U-4000K

### Luminous Intensity Polar Plot





TEST NUMBER: P292457

CATALOG NUMBER: 22GR-LD5-20-A125-UNV-L92765-W2A1-U-4000K

**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°	2266	2266	2266
5°	2264	2259	2277
10°	2245	2248	2271
15°	2210	2225	2263
20°	2164	2192	2248
25°	2101	2144	2222
30°	2013	2070	2169
35°	1907	1961	2060
40°	1754	1797	1887
45°	1558	1615	1673
50°	1361	1423	1466
55°	1183	1199	1243
60°	1041	954	1061
65°	925	762	930
70°	908	677	858
75°	992	744	876
80°	1089	885	938
85°	1303	1025	1053



TEST NUMBER: P292457

CATALOG NUMBER: 22GR-LD5-20-A125-UNV-L92765-W2A1-U-4000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.6	4.4
10°-20°	225.7	12.4
20°-30°	333.2	18.2
30°-40°	372.9	20.4
40°-50°	327.4	17.9
50°-60°	231.7	12.7
60°-70°	134.9	7.4
70°-80°	84.0	4.6
80°-90°	37.6	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°	638.5	34.9
0°-40°	1011.4	55.4
0°-60°	1570.5	86.0
0°-90°	1827.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1827.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	842	842	842	842	842	
5°	838	836	836	840	843	79
15°	793	795	799	807	812	223
25°	708	710	722	739	748	325
35°	581	583	597	615	627	361
45°	409	414	424	434	440	317
55°	252	257	256	260	265	228
65°	145	134	120	130	146	147
75°	95	82	72	73	84	100
85°	42	44	33	32	34	43
90°	0	0	0	0	0	



TEST NUMBER: P292457

CATALOG NUMBER: 22GR-LD5-20-A125-UNV-L92765-W2A1-U-4000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	842.2	842.2	842.2	842.2	842.2
2.5°	842.2	840.5	839.6	842.6	844.3
5°	838.3	836.2	836.2	840.5	843.0
7.5°	831.5	829.4	831.9	835.8	838.3
10°	821.7	820.9	822.6	827.7	831.1
12.5°	808.9	809.4	811.1	819.2	823.4
15°	793.2	794.9	798.7	807.2	812.3
17.5°	776.1	777.4	783.4	793.2	800.4
20°	755.7	758.2	765.5	777.8	785.1
22.5°	733.1	736.1	745.0	759.9	768.9
25°	707.5	710.5	722.0	739.1	748.4
27.5°	678.6	683.3	696.0	714.8	727.6
30°	647.9	651.7	666.2	687.5	698.2
32.5°	615.1	619.8	633.4	653.9	663.2
35°	580.6	583.2	596.8	614.7	627.0
37.5°	541.4	542.7	555.5	572.1	583.2
40°	499.2	500.1	511.6	527.4	537.2
42.5°	455.4	455.8	468.1	480.1	488.6
45°	409.4	414.0	424.3	434.5	439.6
47.5°	368.0	371.5	380.8	389.8	394.5
50°	325.0	333.5	339.9	344.6	350.2
52.5°	288.0	295.2	296.9	302.4	307.1
55°	252.2	257.3	255.6	260.3	265.0
57.5°	221.9	219.4	213.8	221.9	227.9
60°	193.4	186.6	177.2	188.3	197.2
62.5°	167.8	156.8	145.3	156.3	171.2
65°	145.3	133.8	119.7	130.3	146.1
67.5°	128.2	116.3	99.7	110.3	126.1
70°	115.4	103.1	86.0	95.0	109.1
72.5°	105.2	92.0	77.1	83.1	95.0
75°	95.4	82.2	71.6	73.3	84.3
77.5°	83.9	74.1	65.6	64.7	73.3
80°	70.3	67.3	57.1	55.8	60.5
82.5°	57.9	56.7	46.9	45.6	47.3
85°	42.2	43.9	33.2	32.4	34.1
87.5°	22.2	24.3	17.5	18.3	18.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)