

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: P292471

Luminaire Tested: **22GR-LD5-24-A125-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292471  
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-LD5-24-A125-UNV-L92765-W2A1-U-6500K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2304.0 lumens  
Efficiency: N/A  
Efficacy: 121.4 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

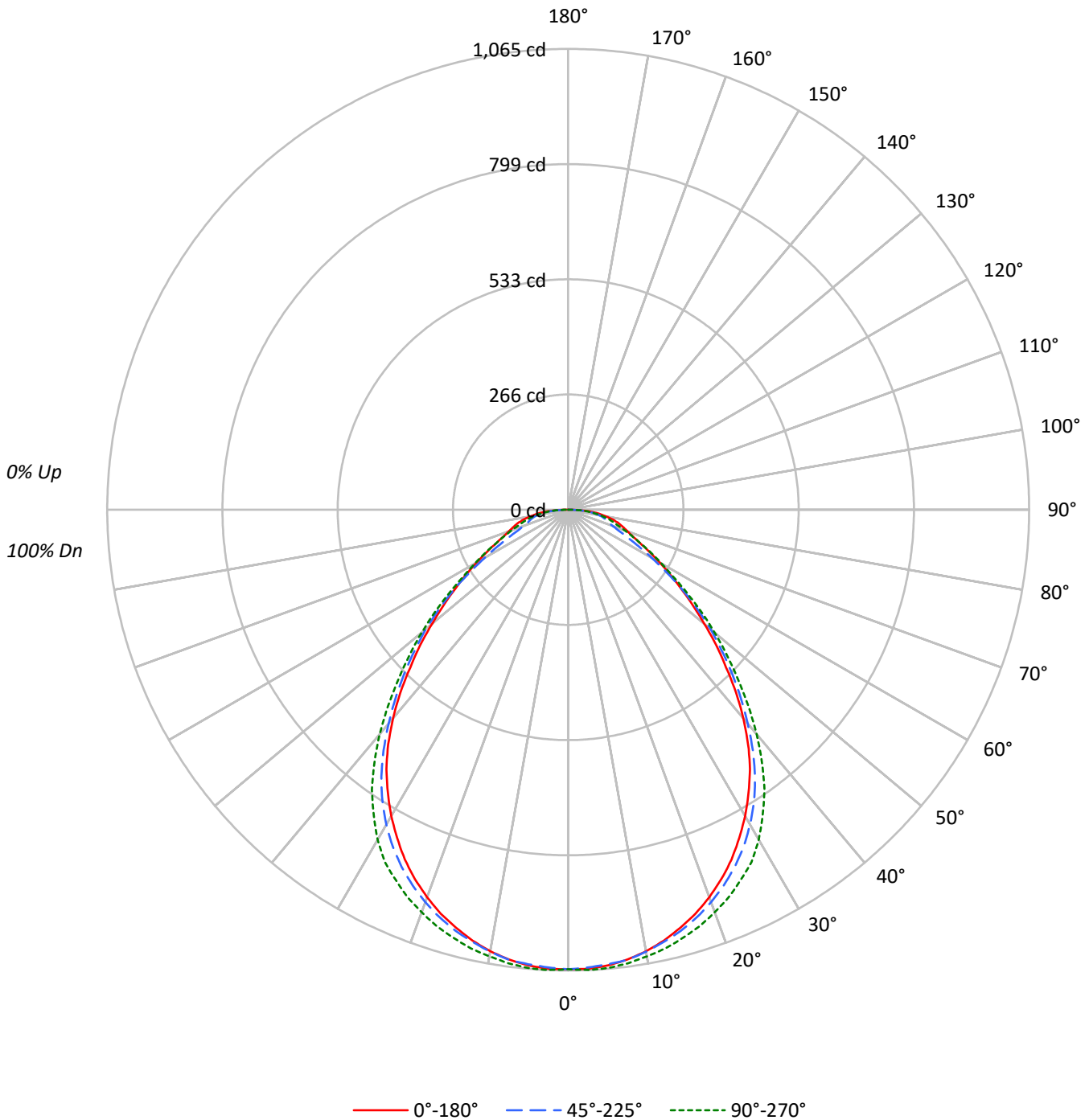
Input Watts (W): 18.972  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P292471

CATALOG NUMBER: 22GR-LD5-24-A125-UNV-L92765-W2A1-U-6500K

### Luminous Intensity Polar Plot





TEST NUMBER: P292471

CATALOG NUMBER: 22GR-LD5-24-A125-UNV-L92765-W2A1-U-6500K

**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°	2858	2858	2858
5°	2856	2848	2872
10°	2831	2834	2864
15°	2787	2806	2854
20°	2729	2764	2835
25°	2649	2703	2802
30°	2539	2611	2736
35°	2405	2472	2598
40°	2212	2266	2380
45°	1964	2036	2110
50°	1716	1795	1849
55°	1492	1512	1567
60°	1313	1203	1338
65°	1167	961	1174
70°	1146	854	1082
75°	1251	938	1106
80°	1373	1116	1182
85°	1643	1294	1328



TEST NUMBER: P292471

CATALOG NUMBER: 22GR-LD5-24-A125-UNV-L92765-W2A1-U-6500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.4	4.4
10°-20°	284.6	12.4
20°-30°	420.2	18.2
30°-40°	470.2	20.4
40°-50°	412.9	17.9
50°-60°	292.2	12.7
60°-70°	170.1	7.4
70°-80°	106.0	4.6
80°-90°	47.4	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°	805.2	34.9
0°-40°	1275.4	55.4
0°-60°	1980.5	86.0
0°-90°	2304.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2304.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1062	1062	1062	1062	1062	
5°	1057	1054	1054	1060	1063	100
15°	1000	1002	1007	1018	1024	282
25°	892	896	910	932	944	410
35°	732	735	753	775	791	455
45°	516	522	535	548	554	399
55°	318	324	322	328	334	287
65°	183	169	151	164	184	186
75°	120	104	90	92	106	126
85°	53	55	42	41	43	54
90°	0	0	0	0	0	



TEST NUMBER: P292471

CATALOG NUMBER: 22GR-LD5-24-A125-UNV-L92765-W2A1-U-6500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1062.0	1062.0	1062.0	1062.0	1062.0
2.5°	1062.0	1059.9	1058.8	1062.6	1064.7
5°	1057.2	1054.5	1054.5	1059.9	1063.1
7.5°	1048.6	1045.9	1049.1	1054.0	1057.2
10°	1036.2	1035.2	1037.3	1043.8	1048.1
12.5°	1020.1	1020.7	1022.8	1033.0	1038.4
15°	1000.3	1002.4	1007.2	1018.0	1024.4
17.5°	978.8	980.4	987.9	1000.3	1009.4
20°	953.0	956.2	965.3	980.9	990.0
22.5°	924.5	928.3	939.5	958.4	969.6
25°	892.3	896.0	910.5	932.0	943.8
27.5°	855.7	861.7	877.8	901.4	917.5
30°	817.1	821.9	840.2	867.0	880.5
32.5°	775.7	781.6	798.8	824.6	836.4
35°	732.2	735.4	752.6	775.2	790.7
37.5°	682.8	684.4	700.5	721.4	735.4
40°	629.6	630.7	645.2	665.0	677.4
42.5°	574.3	574.8	590.4	605.4	616.2
45°	516.2	522.2	535.0	547.9	554.4
47.5°	464.1	468.4	480.3	491.5	497.4
50°	409.9	420.6	428.7	434.6	441.6
52.5°	363.1	372.3	374.4	381.4	387.3
55°	318.0	324.5	322.3	328.2	334.1
57.5°	279.9	276.7	269.7	279.9	287.4
60°	243.9	235.3	223.5	237.4	248.7
62.5°	211.7	197.7	183.2	197.1	216.0
65°	183.2	168.7	151.0	164.4	184.3
67.5°	161.7	146.7	125.7	139.1	159.0
70°	145.6	130.0	108.5	119.8	137.5
72.5°	132.7	116.0	97.2	104.8	119.8
75°	120.3	103.7	90.2	92.4	106.4
77.5°	105.8	93.5	82.7	81.7	92.4
80°	88.6	84.9	72.0	70.4	76.3
82.5°	73.1	71.4	59.1	57.5	59.6
85°	53.2	55.3	41.9	40.8	43.0
87.5°	27.9	30.6	22.0	23.1	23.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)