

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: P292287

Luminaire Tested: **22GR-LD5-32-A-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292287  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33296)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22GR-LD5-32-A-UNV-L92765-W2A1-U-3500K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH A LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2749.0 lumens  
Efficiency: N/A  
Efficacy: 111.5 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.25  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

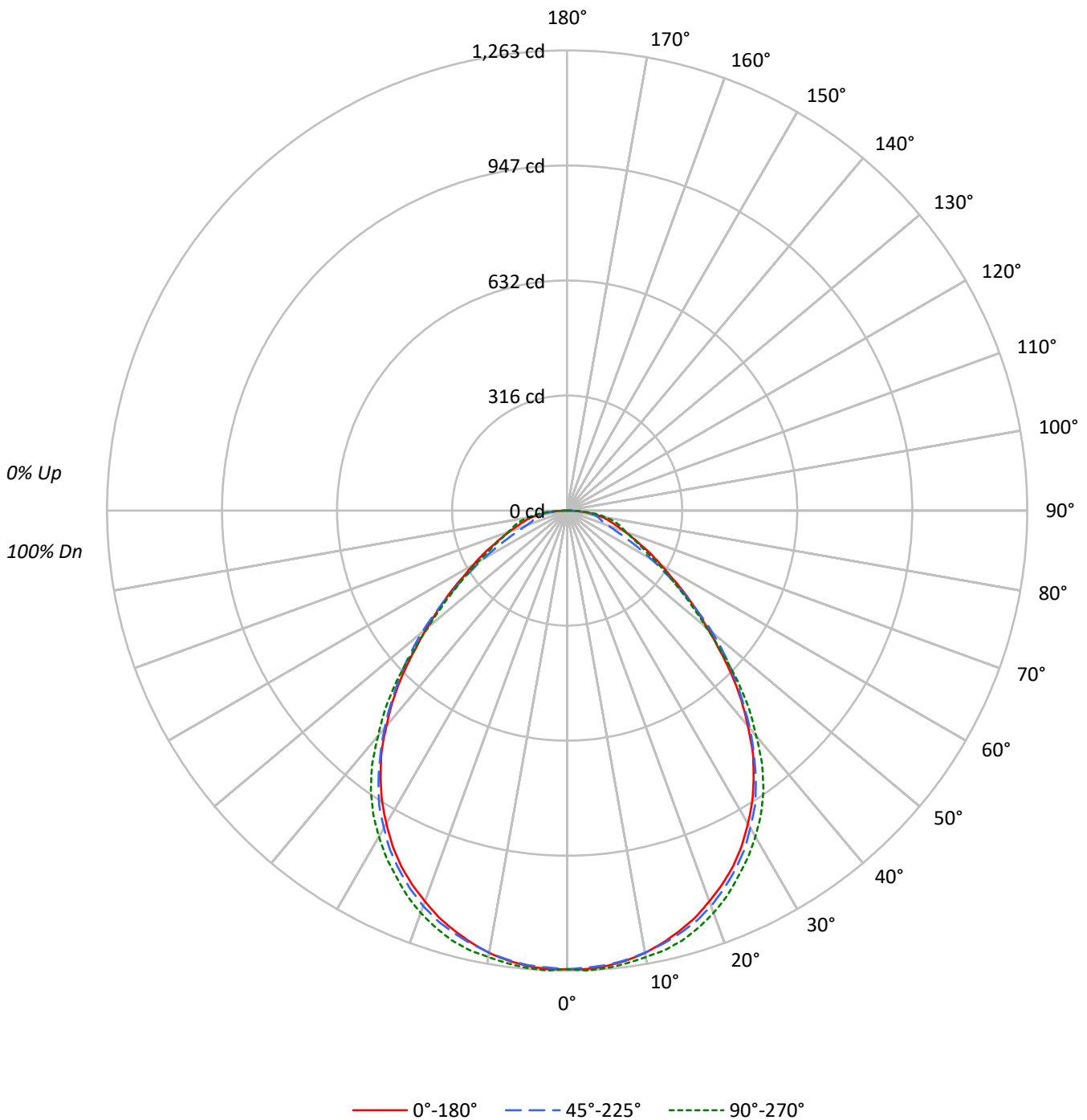
Input Watts (W): 24.645  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P292287

CATALOG NUMBER: 22GR-LD5-32-A-UNV-L92765-W2A1-U-3500K

### Luminous Intensity Polar Plot





TEST NUMBER: P292287

CATALOG NUMBER: 22GR-LD5-32-A-UNV-L92765-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	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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86					86			
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74					74			
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64					64			
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56					56			
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49					49			
6	74	62	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	53	46	42	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	35	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	30					30			

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

	0°	45°	90°
0°	3388	3388	3388
5°	3389	3383	3404
10°	3368	3367	3400
15°	3326	3343	3402
20°	3268	3307	3365
25°	3199	3235	3294
30°	3083	3125	3210
35°	2932	2965	3085
40°	2710	2739	2836
45°	2434	2478	2517
50°	2105	2180	2084
55°	1837	1789	1765
60°	1590	1432	1528
65°	1422	1124	1373
70°	1319	931	1354
75°	1317	985	1503
80°	1457	1240	1695
85°	1522	1343	1917



TEST NUMBER: P292287

CATALOG NUMBER: 22GR-LD5-32-A-UNV-L92765-W2A1-U-3500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	119.1	4.3
10°-20°	339.3	12.3
20°-30°	501.8	18.3
30°-40°	566.3	20.6
40°-50°	499.2	18.2
50°-60°	342.5	12.5
60°-70°	202.1	7.4
70°-80°	126.1	4.6
80°-90°	52.6	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°	960.3	34.9
0°-40°	1526.6	55.5
0°-60°	2368.3	86.1
0°-90°	2749.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2749.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1259	1259	1259	1259	1259	
5°	1254	1252	1252	1257	1260	119
15°	1194	1195	1200	1215	1221	336
25°	1077	1081	1089	1104	1109	495
35°	892	900	903	924	939	556
45°	640	643	651	655	662	491
55°	392	382	381	368	376	351
65°	223	196	177	204	216	225
75°	127	114	95	132	145	136
85°	49	46	44	57	62	53
90°	0	0	0	0	0	



TEST NUMBER: P292287

CATALOG NUMBER: 22GR-LD5-32-A-UNV-L92765-W2A1-U-3500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1258.9	1258.9	1258.9	1258.9	1258.9
2.5°	1259.6	1256.4	1255.1	1260.2	1263.4
5°	1254.5	1251.9	1252.5	1257.0	1260.2
7.5°	1245.5	1243.6	1243.6	1250.0	1253.2
10°	1232.7	1232.1	1232.1	1239.8	1244.2
12.5°	1214.8	1215.4	1218.0	1228.2	1235.9
15°	1193.7	1195.0	1200.1	1214.8	1221.2
17.5°	1170.7	1170.7	1180.9	1192.4	1200.1
20°	1141.2	1143.2	1154.7	1167.5	1175.1
22.5°	1111.2	1114.4	1124.0	1138.7	1145.7
25°	1077.3	1081.1	1089.4	1103.5	1109.3
27.5°	1037.6	1042.7	1051.7	1061.9	1074.1
30°	992.2	999.9	1005.6	1019.7	1033.1
32.5°	946.1	953.2	959.6	974.3	989.6
35°	892.4	900.1	902.6	924.4	939.1
37.5°	837.4	840.6	841.9	863.6	879.6
40°	771.5	777.9	779.8	797.1	807.3
42.5°	708.2	710.7	714.6	727.3	739.5
45°	639.7	642.9	651.2	655.1	661.5
47.5°	568.1	577.7	587.3	575.1	575.7
50°	502.8	510.5	520.7	497.7	497.7
52.5°	444.6	448.4	449.1	429.9	433.7
55°	391.5	381.9	381.3	368.5	376.1
57.5°	338.4	325.6	321.1	317.3	326.3
60°	295.5	272.5	266.1	271.9	284.0
62.5°	260.4	230.9	218.8	233.5	244.4
65°	223.3	196.4	176.6	204.1	215.6
67.5°	194.5	168.9	143.3	182.3	190.6
70°	167.6	147.8	118.3	165.7	172.1
72.5°	145.9	130.5	102.4	149.7	157.4
75°	126.7	113.9	94.7	132.4	144.6
77.5°	111.3	97.2	88.3	114.5	129.2
80°	94.0	80.0	80.0	96.0	109.4
82.5°	74.2	62.7	64.6	78.0	87.6
85°	49.3	46.1	43.5	56.9	62.1
87.5°	24.9	25.6	23.0	29.4	30.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)