

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: P292504

Luminaire Tested: **22GR-LD5-40-A125-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292504  
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-LD5-40-A125-UNV-L92765-W2A1-U-5000K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3751.0 lumens  
Efficiency: N/A  
Efficacy: 113.3 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

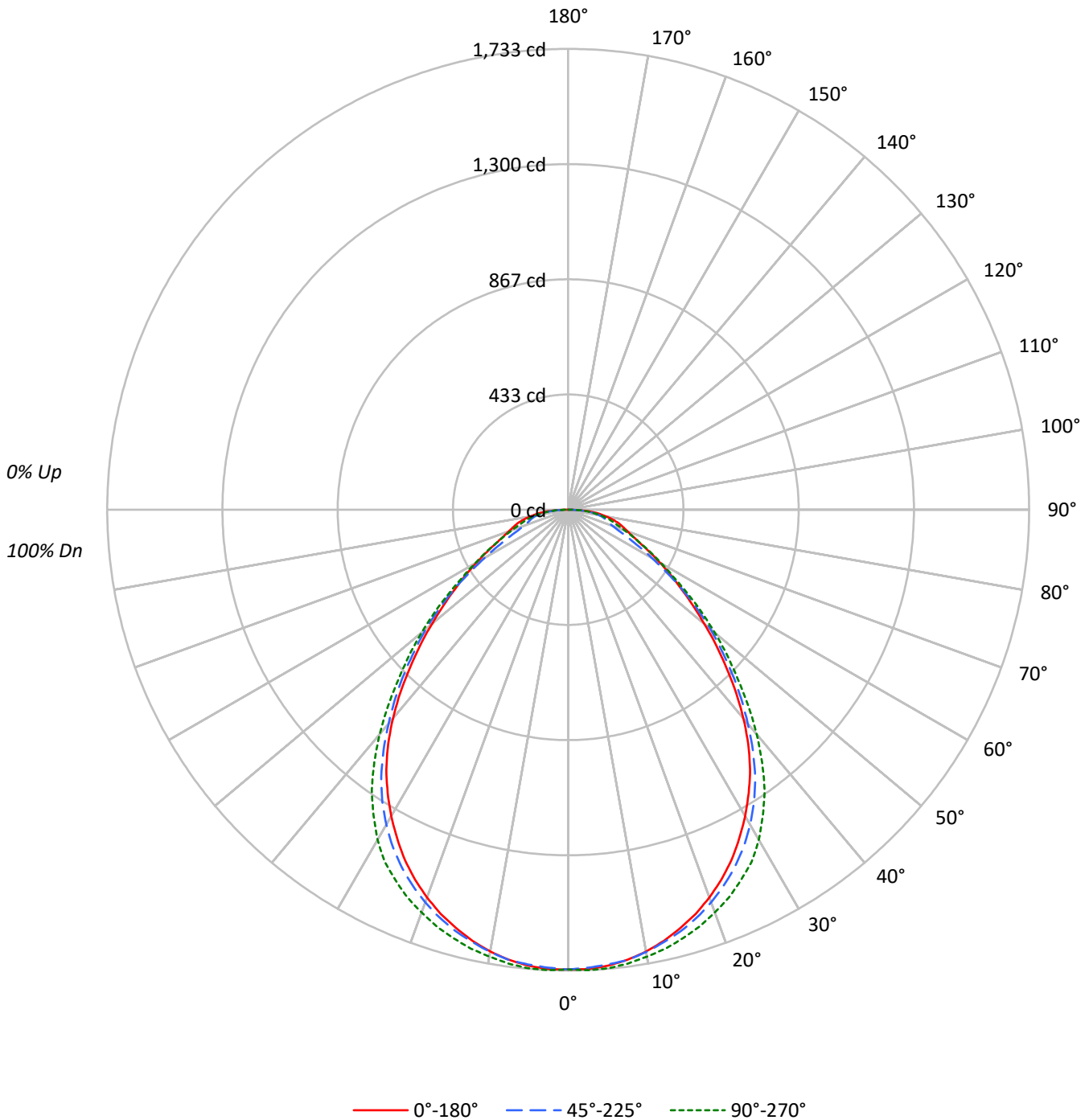
Input Watts (W): 33.108  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P292504

CATALOG NUMBER: 22GR-LD5-40-A125-UNV-L92765-W2A1-U-5000K

### Luminous Intensity Polar Plot





TEST NUMBER: P292504

CATALOG NUMBER: 22GR-LD5-40-A125-UNV-L92765-W2A1-U-5000K

**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°	4653	4653	4653
5°	4649	4638	4675
10°	4610	4615	4662
15°	4537	4568	4646
20°	4443	4501	4616
25°	4313	4401	4562
30°	4133	4250	4454
35°	3916	4025	4229
40°	3601	3690	3874
45°	3199	3315	3435
50°	2794	2922	3010
55°	2429	2462	2552
60°	2137	1958	2179
65°	1899	1565	1910
70°	1865	1390	1762
75°	2037	1527	1801
80°	2236	1816	1925
85°	2674	2106	2161



TEST NUMBER: P292504

CATALOG NUMBER: 22GR-LD5-40-A125-UNV-L92765-W2A1-U-5000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	163.4	4.4
10°-20°	463.4	12.4
20°-30°	684.1	18.2
30°-40°	765.5	20.4
40°-50°	672.2	17.9
50°-60°	475.7	12.7
60°-70°	276.9	7.4
70°-80°	172.5	4.6
80°-90°	77.2	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°	1310.9	34.9
0°-40°	2076.4	55.4
0°-60°	3224.4	86.0
0°-90°	3751.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3751.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1729	1729	1729	1729	1729	
5°	1721	1717	1717	1726	1731	163
15°	1628	1632	1640	1657	1668	459
25°	1453	1459	1482	1517	1537	667
35°	1192	1197	1225	1262	1287	741
45°	840	850	871	892	903	650
55°	518	528	525	534	544	468
65°	298	275	246	268	300	302
75°	196	169	147	150	173	205
85°	87	90	68	66	70	88
90°	0	0	0	0	0	



TEST NUMBER: P292504

CATALOG NUMBER: 22GR-LD5-40-A125-UNV-L92765-W2A1-U-5000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1729.0	1729.0	1729.0	1729.0	1729.0
2.5°	1729.0	1725.5	1723.8	1729.9	1733.4
5°	1721.2	1716.8	1716.8	1725.5	1730.8
7.5°	1707.2	1702.8	1708.0	1715.9	1721.2
10°	1687.0	1685.3	1688.8	1699.3	1706.3
12.5°	1660.8	1661.7	1665.2	1681.8	1690.5
15°	1628.4	1631.9	1639.8	1657.3	1667.8
17.5°	1593.5	1596.1	1608.3	1628.4	1643.3
20°	1551.5	1556.7	1571.6	1597.0	1611.8
22.5°	1505.1	1511.3	1529.6	1560.2	1578.6
25°	1452.7	1458.8	1482.4	1517.4	1536.6
27.5°	1393.2	1402.8	1429.0	1467.5	1493.8
30°	1330.2	1338.1	1367.8	1411.6	1433.4
32.5°	1262.9	1272.5	1300.5	1342.5	1361.7
35°	1192.0	1197.3	1225.3	1262.0	1287.4
37.5°	1111.6	1114.2	1140.4	1174.5	1197.3
40°	1025.0	1026.7	1050.4	1082.7	1102.8
42.5°	934.9	935.8	961.2	985.6	1003.1
45°	840.5	850.1	871.1	892.1	902.6
47.5°	755.6	762.6	781.9	800.2	809.9
50°	667.3	684.8	697.9	707.5	718.9
52.5°	591.2	606.1	609.6	620.9	630.6
55°	517.7	528.2	524.7	534.4	544.0
57.5°	455.7	450.4	439.0	455.7	467.9
60°	397.1	383.1	363.8	386.6	404.9
62.5°	344.6	321.8	298.2	321.0	351.6
65°	298.2	274.6	245.8	267.6	300.0
67.5°	263.2	238.8	204.6	226.5	258.9
70°	237.0	211.6	176.7	195.0	223.9
72.5°	216.0	188.9	158.3	170.5	195.0
75°	195.9	168.8	146.9	150.4	173.2
77.5°	172.3	152.2	134.7	132.9	150.4
80°	144.3	138.2	117.2	114.6	124.2
82.5°	118.9	116.3	96.2	93.6	97.1
85°	86.6	90.1	68.2	66.5	70.0
87.5°	45.5	49.9	35.9	37.6	38.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)