

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: P292347

Luminaire Tested: **22GR-LD5-40-A125-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292347  
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-L83050-W2A1-U-3500K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4058.0 lumens  
Efficiency: N/A  
Efficacy: 125.4 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

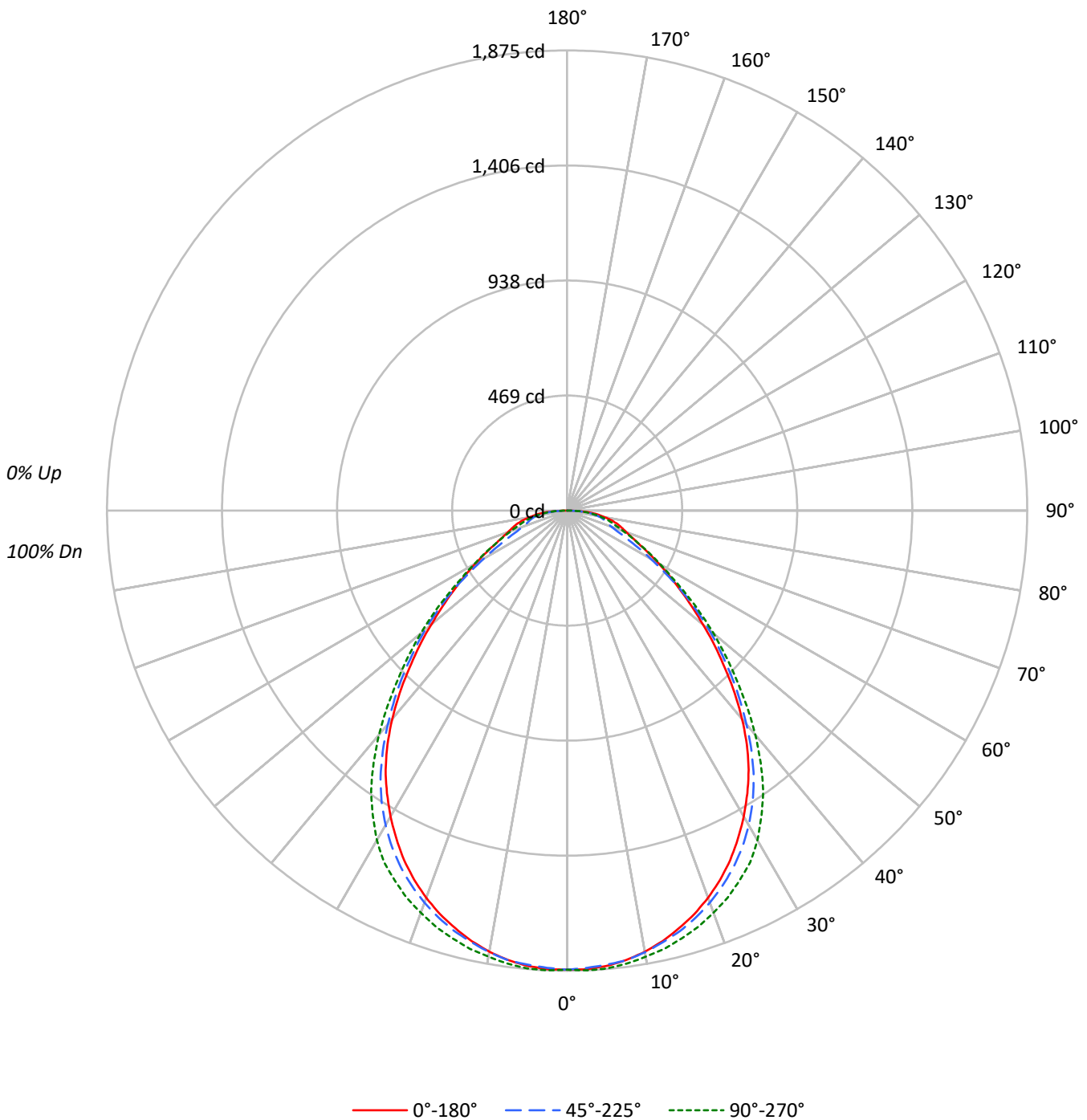
Input Watts (W): 32.364  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P292347

CATALOG NUMBER: 22GR-LD5-40-A125-UNV-L83050-W2A1-U-3500K

### Luminous Intensity Polar Plot





TEST NUMBER: P292347

CATALOG NUMBER: 22GR-LD5-40-A125-UNV-L83050-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	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°	5033	5033	5033
5°	5030	5017	5058
10°	4987	4992	5044
15°	4908	4942	5027
20°	4807	4869	4994
25°	4666	4762	4936
30°	4472	4598	4818
35°	4236	4355	4575
40°	3895	3992	4191
45°	3460	3586	3716
50°	3022	3161	3256
55°	2628	2663	2761
60°	2312	2118	2358
65°	2054	1693	2066
70°	2017	1504	1906
75°	2203	1653	1947
80°	2419	1965	2083
85°	2893	2279	2337



TEST NUMBER: P292347

CATALOG NUMBER: 22GR-LD5-40-A125-UNV-L83050-W2A1-U-3500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	176.8	4.4
10°-20°	501.3	12.4
20°-30°	740.1	18.2
30°-40°	828.2	20.4
40°-50°	727.3	17.9
50°-60°	514.6	12.7
60°-70°	299.5	7.4
70°-80°	186.7	4.6
80°-90°	83.5	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°	1418.2	34.9
0°-40°	2246.4	55.4
0°-60°	3488.3	86.0
0°-90°	4058.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4058.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1870	1870	1870	1870	1870	
5°	1862	1857	1857	1867	1872	177
15°	1762	1766	1774	1793	1804	496
25°	1572	1578	1604	1642	1662	722
35°	1290	1295	1326	1365	1393	802
45°	909	920	942	965	976	703
55°	560	572	568	578	588	506
65°	323	297	266	290	324	327
75°	212	183	159	163	187	221
85°	94	98	74	72	76	95
90°	0	0	0	0	0	



TEST NUMBER: P292347

CATALOG NUMBER: 22GR-LD5-40-A125-UNV-L83050-W2A1-U-3500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1870.5	1870.5	1870.5	1870.5	1870.5
2.5°	1870.5	1866.8	1864.9	1871.5	1875.3
5°	1862.0	1857.3	1857.3	1866.8	1872.4
7.5°	1846.9	1842.2	1847.8	1856.3	1862.0
10°	1825.1	1823.2	1827.0	1838.4	1845.9
12.5°	1796.7	1797.7	1801.5	1819.4	1828.9
15°	1761.7	1765.5	1774.0	1793.0	1804.3
17.5°	1723.9	1726.7	1740.0	1761.7	1777.8
20°	1678.5	1684.1	1700.2	1727.7	1743.8
22.5°	1628.3	1634.9	1654.8	1687.9	1707.8
25°	1571.6	1578.2	1603.7	1641.6	1662.4
27.5°	1507.2	1517.6	1546.0	1587.6	1616.0
30°	1439.1	1447.6	1479.8	1527.1	1550.7
32.5°	1366.2	1376.6	1406.9	1452.3	1473.2
35°	1289.6	1295.3	1325.6	1365.3	1392.7
37.5°	1202.6	1205.4	1233.8	1270.7	1295.3
40°	1108.9	1110.8	1136.3	1171.3	1193.1
42.5°	1011.4	1012.4	1039.8	1066.3	1085.2
45°	909.2	919.7	942.4	965.1	976.4
47.5°	817.5	825.0	845.9	865.7	876.1
50°	721.9	740.8	755.0	765.4	777.7
52.5°	639.6	655.7	659.5	671.8	682.2
55°	560.1	571.5	567.7	578.1	588.5
57.5°	492.9	487.3	475.0	492.9	506.2
60°	429.6	414.4	393.6	418.2	438.1
62.5°	372.8	348.2	322.6	347.2	380.4
65°	322.6	297.1	265.9	289.5	324.5
67.5°	284.8	258.3	221.4	245.1	280.1
70°	256.4	229.0	191.1	211.0	242.2
72.5°	233.7	204.4	171.3	184.5	211.0
75°	211.9	182.6	159.0	162.7	187.3
77.5°	186.4	164.6	145.7	143.8	162.7
80°	156.1	149.5	126.8	123.9	134.4
82.5°	128.7	125.8	104.1	101.2	105.0
85°	93.7	97.5	73.8	71.9	75.7
87.5°	49.2	53.9	38.8	40.7	41.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)