

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: P292396

Luminaire Tested: **22GR-LD5-36-A125-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292396  
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-LD5-36-A125-UNV-L82765-W2A1-U-4500K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3657.0 lumens  
Efficiency: N/A  
Efficacy: 127.7 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

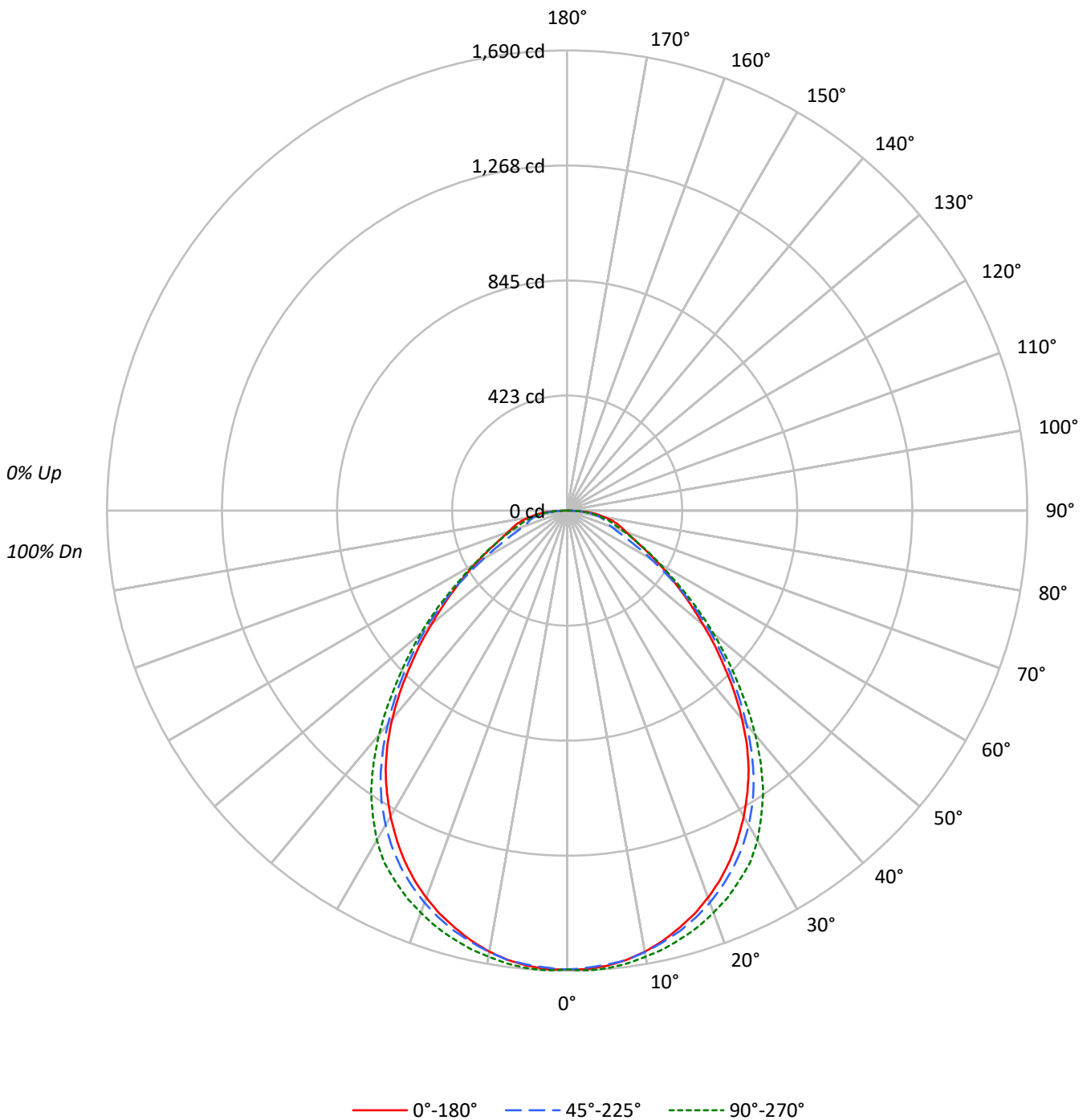
Input Watts (W): 28.644  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**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°	4536	4536	4536
5°	4533	4521	4558
10°	4494	4499	4545
15°	4423	4454	4530
20°	4332	4388	4500
25°	4205	4291	4448
30°	4030	4144	4342
35°	3818	3924	4123
40°	3510	3597	3777
45°	3118	3232	3349
50°	2724	2848	2934
55°	2368	2400	2488
60°	2083	1909	2125
65°	1852	1526	1862
70°	1818	1355	1718
75°	1986	1489	1755
80°	2180	1771	1877
85°	2606	2053	2106



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	159.3	4.4
10°-20°	451.8	12.4
20°-30°	667.0	18.2
30°-40°	746.3	20.4
40°-50°	655.4	17.9
50°-60°	463.8	12.7
60°-70°	269.9	7.4
70°-80°	168.2	4.6
80°-90°	75.3	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°	1278.1	34.9
0°-40°	2024.4	55.4
0°-60°	3143.6	86.0
0°-90°	3657.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3657.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1686	1686	1686	1686	1686	
5°	1678	1674	1674	1682	1687	159
15°	1588	1591	1599	1616	1626	447
25°	1416	1422	1445	1479	1498	650
35°	1162	1167	1195	1230	1255	723
45°	819	829	849	870	880	634
55°	505	515	512	521	530	456
65°	291	268	240	261	292	295
75°	191	165	143	147	169	199
85°	84	88	66	65	68	86
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1685.7	1685.7	1685.7	1685.7	1685.7
2.5°	1685.7	1682.3	1680.6	1686.5	1690.0
5°	1678.0	1673.8	1673.8	1682.3	1687.4
7.5°	1664.4	1660.1	1665.2	1672.9	1678.0
10°	1644.8	1643.1	1646.5	1656.7	1663.5
12.5°	1619.2	1620.0	1623.5	1639.7	1648.2
15°	1587.6	1591.1	1598.7	1615.8	1626.0
17.5°	1553.5	1556.1	1568.0	1587.6	1602.1
20°	1512.6	1517.7	1532.2	1556.9	1571.4
22.5°	1467.4	1473.4	1491.3	1521.1	1539.0
25°	1416.3	1422.2	1445.2	1479.4	1498.1
27.5°	1358.3	1367.7	1393.2	1430.8	1456.3
30°	1296.9	1304.6	1333.5	1376.2	1397.5
32.5°	1231.2	1240.6	1267.9	1308.8	1327.6
35°	1162.2	1167.3	1194.6	1230.4	1255.1
37.5°	1083.7	1086.3	1111.9	1145.1	1167.3
40°	999.3	1001.0	1024.0	1055.6	1075.2
42.5°	911.5	912.3	937.1	960.9	978.0
45°	819.4	828.8	849.2	869.7	879.9
47.5°	736.7	743.5	762.3	780.2	789.6
50°	650.6	667.6	680.4	689.8	700.9
52.5°	576.4	590.9	594.3	605.4	614.8
55°	504.8	515.0	511.6	521.0	530.4
57.5°	444.2	439.1	428.0	444.2	456.2
60°	387.1	373.5	354.7	376.9	394.8
62.5°	335.9	313.8	290.8	312.9	342.8
65°	290.8	267.7	239.6	260.9	292.5
67.5°	256.6	232.8	199.5	220.8	252.4
70°	231.1	206.3	172.2	190.1	218.3
72.5°	210.6	184.2	154.3	166.3	190.1
75°	191.0	164.6	143.2	146.7	168.8
77.5°	168.0	148.4	131.3	129.6	146.7
80°	140.7	134.7	114.3	111.7	121.1
82.5°	116.0	113.4	93.8	91.2	94.6
85°	84.4	87.8	66.5	64.8	68.2
87.5°	44.3	48.6	35.0	36.7	37.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)