

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: P292507

Luminaire Tested: **22GR-LD5-40-A125-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292507  
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-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: 3851.0 lumens  
Efficiency: N/A  
Efficacy: 113.8 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

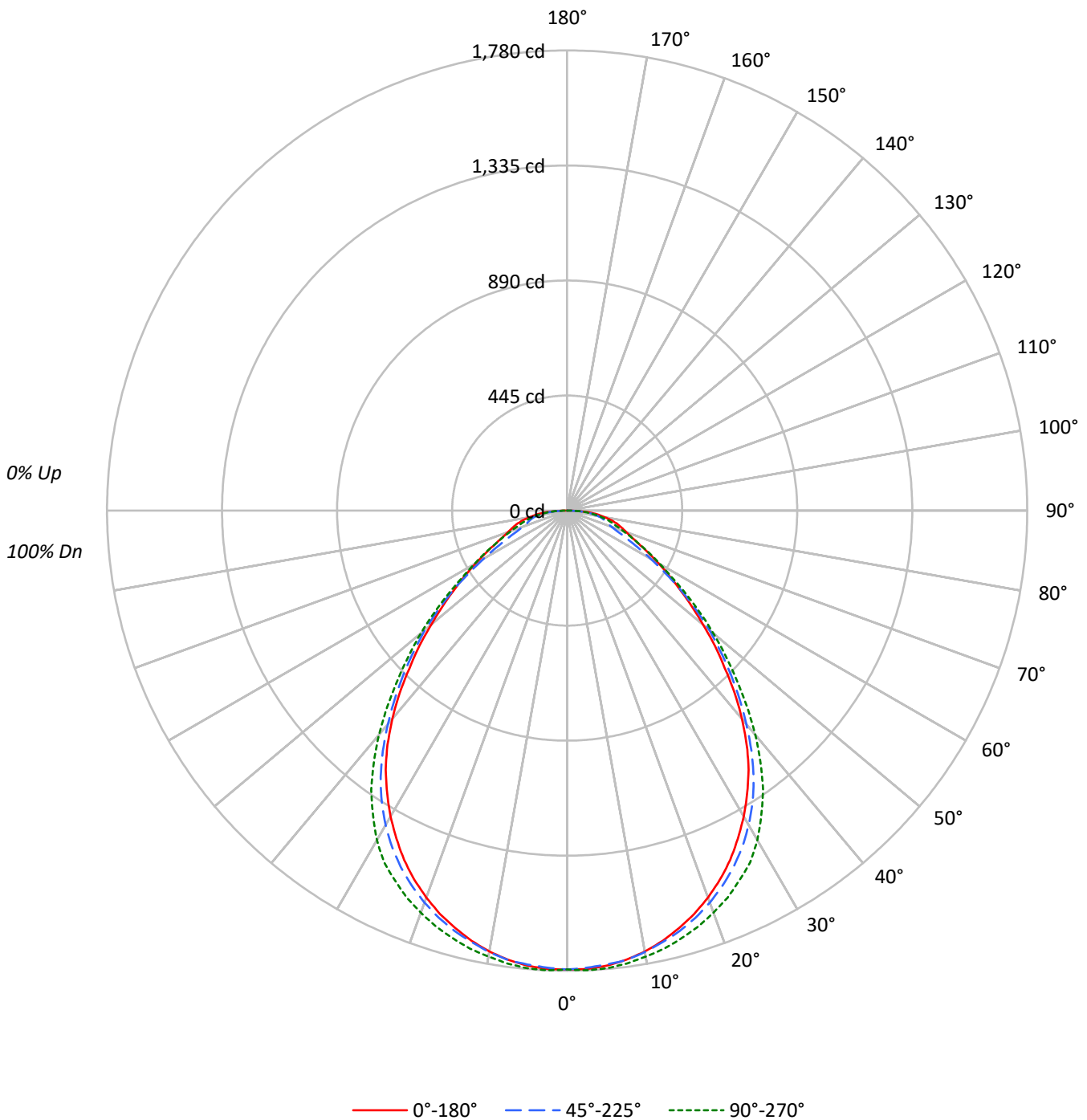
Input Watts (W): 33.852  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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				
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76					74				
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	70	66					64				
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58					56				
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51					49				
6	74	61	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46					44				
7	69	56	48	42	67	55	48	42	54	47	42	52	46	41	51	46	41					39				
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37					36				
9	60	48	40	35	59	47	40	34	46	39	34	45	39	34	44	38	34					32				
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31					29				

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

	0°	45°	90°
0°	4777	4777	4777
5°	4773	4761	4800
10°	4733	4738	4787
15°	4658	4690	4770
20°	4561	4621	4739
25°	4428	4519	4684
30°	4244	4364	4573
35°	4020	4132	4342
40°	3697	3788	3977
45°	3284	3403	3526
50°	2868	3000	3090
55°	2494	2527	2620
60°	2194	2010	2237
65°	1950	1606	1961
70°	1914	1427	1809
75°	2091	1568	1849
80°	2297	1864	1976
85°	2745	2161	2217



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	167.8	4.4
10°-20°	475.8	12.4
20°-30°	702.4	18.2
30°-40°	785.9	20.4
40°-50°	690.2	17.9
50°-60°	488.3	12.7
60°-70°	284.3	7.4
70°-80°	177.1	4.6
80°-90°	79.3	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°	1345.9	34.9
0°-40°	2131.8	55.4
0°-60°	3310.3	86.0
0°-90°	3851.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3851.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1775	1775	1775	1775	1775	
5°	1767	1762	1762	1772	1777	168
15°	1672	1676	1684	1702	1712	471
25°	1491	1498	1522	1558	1578	685
35°	1224	1229	1258	1296	1322	761
45°	863	873	894	916	927	667
55°	532	542	539	549	558	480
65°	306	282	252	275	308	311
75°	201	173	151	154	178	210
85°	89	92	70	68	72	90
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1775.1	1775.1	1775.1	1775.1	1775.1
2.5°	1775.1	1771.5	1769.7	1776.0	1779.6
5°	1767.0	1762.5	1762.5	1771.5	1776.9
7.5°	1752.7	1748.2	1753.6	1761.7	1767.0
10°	1732.0	1730.2	1733.8	1744.6	1751.8
12.5°	1705.1	1706.0	1709.6	1726.6	1735.6
15°	1671.9	1675.5	1683.5	1701.5	1712.3
17.5°	1635.9	1638.6	1651.2	1671.9	1687.1
20°	1592.8	1598.2	1613.5	1639.5	1654.8
22.5°	1545.3	1551.5	1570.4	1601.8	1620.7
25°	1491.4	1497.7	1521.9	1557.8	1577.6
27.5°	1430.3	1440.2	1467.1	1506.7	1533.6
30°	1365.7	1373.8	1404.3	1449.2	1471.6
32.5°	1296.5	1306.4	1335.2	1378.3	1398.0
35°	1223.8	1229.2	1257.9	1295.6	1321.7
37.5°	1141.2	1143.9	1170.8	1205.9	1229.2
40°	1052.3	1054.1	1078.4	1111.6	1132.2
42.5°	959.8	960.7	986.8	1011.9	1029.9
45°	862.9	872.7	894.3	915.8	926.6
47.5°	775.8	783.0	802.7	821.6	831.4
50°	685.1	703.0	716.5	726.4	738.1
52.5°	607.0	622.2	625.8	637.5	647.4
55°	531.5	542.3	538.7	548.6	558.5
57.5°	467.8	462.4	450.7	467.8	480.4
60°	407.6	393.3	373.5	396.9	415.7
62.5°	353.8	330.4	306.2	329.5	361.0
65°	306.2	281.9	252.3	274.8	308.0
67.5°	270.3	245.1	210.1	232.6	265.8
70°	243.3	217.3	181.4	200.2	229.9
72.5°	221.8	193.9	162.5	175.1	200.2
75°	201.1	173.3	150.8	154.4	177.8
77.5°	176.9	156.2	138.3	136.5	154.4
80°	148.2	141.9	120.3	117.6	127.5
82.5°	122.1	119.4	98.8	96.1	99.7
85°	88.9	92.5	70.0	68.2	71.8
87.5°	46.7	51.2	36.8	38.6	39.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)