

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: P292402

Luminaire Tested: **22GR-LD5-40-A125-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292402  
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-L82765-W2A1-U-3000K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3831.0 lumens  
Efficiency: N/A  
Efficacy: 119.1 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

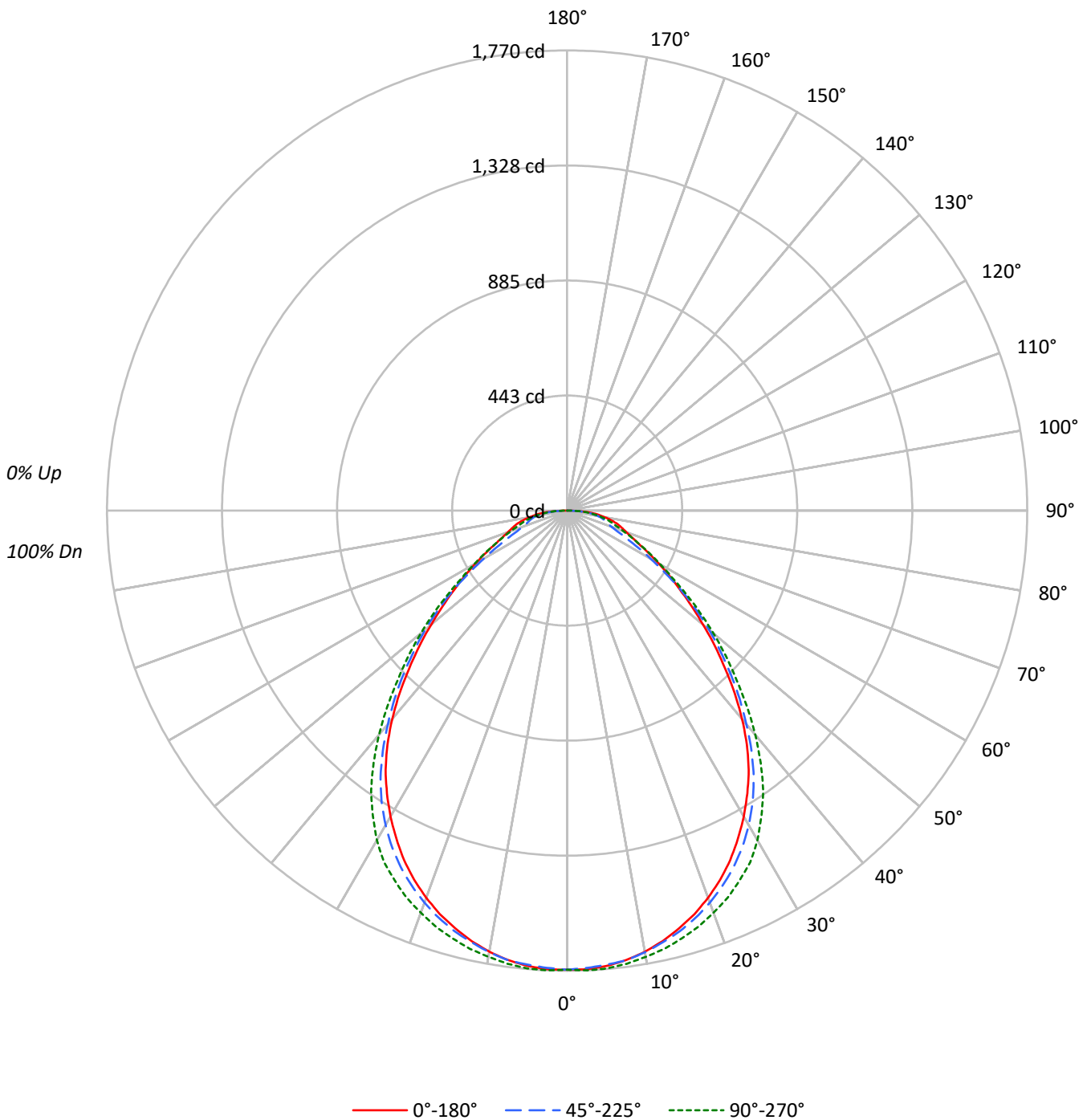
Input Watts (W): 32.178  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4752	4752	4752
5°	4749	4736	4775
10°	4708	4713	4762
15°	4634	4666	4746
20°	4538	4596	4714
25°	4405	4495	4660
30°	4222	4341	4549
35°	4000	4111	4319
40°	3678	3769	3957
45°	3267	3385	3508
50°	2853	2984	3074
55°	2481	2514	2607
60°	2182	2000	2226
65°	1940	1598	1951
70°	1905	1419	1799
75°	2080	1561	1839
80°	2284	1855	1965
85°	2729	2152	2208



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	166.9	4.4
10°-20°	473.3	12.4
20°-30°	698.7	18.2
30°-40°	781.8	20.4
40°-50°	686.6	17.9
50°-60°	485.8	12.7
60°-70°	282.8	7.4
70°-80°	176.2	4.6
80°-90°	78.9	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°	1338.9	34.9
0°-40°	2120.7	55.4
0°-60°	3293.1	86.0
0°-90°	3831.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3831.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1766	1766	1766	1766	1766	
5°	1758	1753	1753	1762	1768	167
15°	1663	1667	1675	1693	1703	469
25°	1484	1490	1514	1550	1569	681
35°	1218	1223	1251	1289	1315	757
45°	858	868	890	911	922	664
55°	529	540	536	546	556	478
65°	305	280	251	273	306	309
75°	200	172	150	154	177	209
85°	88	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°	1765.9	1765.9	1765.9	1765.9	1765.9
2.5°	1765.9	1762.3	1760.5	1766.8	1770.4
5°	1757.9	1753.4	1753.4	1762.3	1767.7
7.5°	1743.6	1739.1	1744.5	1752.5	1757.9
10°	1723.0	1721.2	1724.8	1735.5	1742.7
12.5°	1696.2	1697.1	1700.7	1717.7	1726.6
15°	1663.2	1666.8	1674.8	1692.7	1703.4
17.5°	1627.5	1630.1	1642.6	1663.2	1678.4
20°	1584.6	1589.9	1605.1	1631.0	1646.2
22.5°	1537.2	1543.5	1562.2	1593.5	1612.3
25°	1483.6	1489.9	1514.0	1549.7	1569.4
27.5°	1422.9	1432.7	1459.5	1498.8	1525.6
30°	1358.6	1366.6	1397.0	1441.7	1464.0
32.5°	1289.8	1299.6	1328.2	1371.1	1390.7
35°	1217.5	1222.8	1251.4	1288.9	1314.8
37.5°	1135.3	1138.0	1164.8	1199.6	1222.8
40°	1046.9	1048.6	1072.8	1105.8	1126.4
42.5°	954.9	955.7	981.7	1006.7	1024.5
45°	858.4	868.2	889.6	911.1	921.8
47.5°	771.7	778.9	798.5	817.3	827.1
50°	681.5	699.4	712.8	722.6	734.2
52.5°	603.8	619.0	622.6	634.2	644.0
55°	528.8	539.5	535.9	545.8	555.6
57.5°	465.4	460.0	448.4	465.4	477.9
60°	405.5	391.2	371.6	394.8	413.6
62.5°	351.9	328.7	304.6	327.8	359.1
65°	304.6	280.5	251.0	273.3	306.4
67.5°	268.9	243.8	209.0	231.3	264.4
70°	242.1	216.2	180.4	199.2	228.7
72.5°	220.6	192.9	161.7	174.2	199.2
75°	200.1	172.4	150.1	153.6	176.9
77.5°	176.0	155.4	137.6	135.8	153.6
80°	147.4	141.1	119.7	117.0	126.8
82.5°	121.5	118.8	98.3	95.6	99.1
85°	88.4	92.0	69.7	67.9	71.5
87.5°	46.4	50.9	36.6	38.4	39.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)