

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: P292511

Luminaire Tested: **22GR-LD5-43-A125-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292511  
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-LD5-43-A125-UNV-L92765-W2A1-U-4000K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3827.0 lumens  
Efficiency: N/A  
Efficacy: 107.7 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

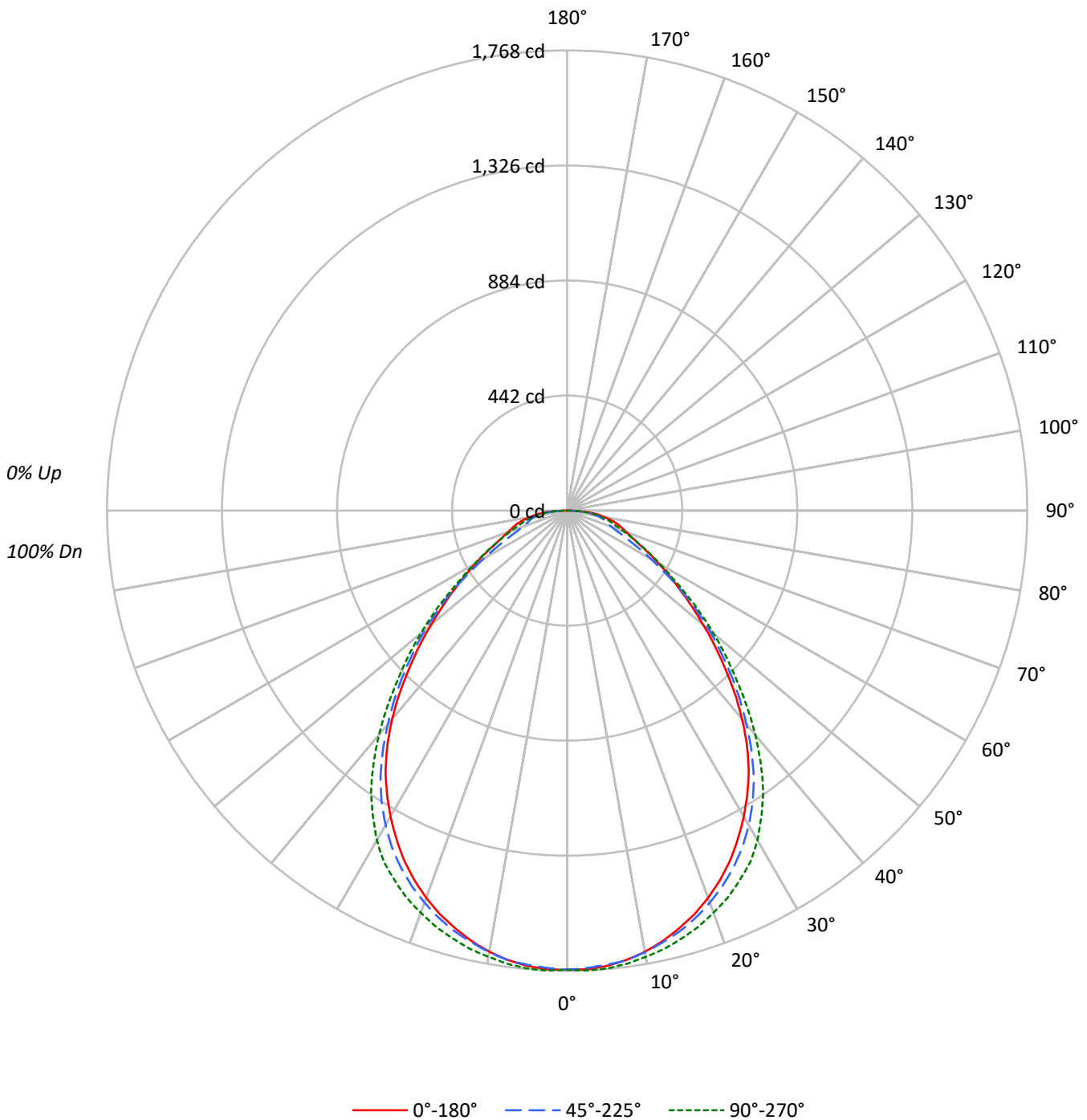
Input Watts (W): 35.526  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	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°	4747	4747	4747
5°	4743	4732	4770
10°	4703	4708	4757
15°	4629	4661	4740
20°	4533	4592	4709
25°	4401	4491	4655
30°	4217	4336	4544
35°	3995	4107	4315
40°	3674	3764	3953
45°	3263	3382	3504
50°	2850	2981	3071
55°	2478	2512	2604
60°	2180	1998	2223
65°	1938	1596	1949
70°	1902	1418	1797
75°	2078	1559	1837
80°	2281	1853	1963
85°	2726	2149	2205



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	166.7	4.4
10°-20°	472.8	12.4
20°-30°	698.0	18.2
30°-40°	781.0	20.4
40°-50°	685.9	17.9
50°-60°	485.3	12.7
60°-70°	282.5	7.4
70°-80°	176.0	4.6
80°-90°	78.8	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°	1337.5	34.9
0°-40°	2118.5	55.4
0°-60°	3289.7	86.0
0°-90°	3827.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3827.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1764	1764	1764	1764	1764	
5°	1756	1752	1752	1760	1766	167
15°	1661	1665	1673	1691	1702	468
25°	1482	1488	1512	1548	1568	681
35°	1216	1222	1250	1288	1314	756
45°	858	867	889	910	921	663
55°	528	539	535	545	555	477
65°	304	280	251	273	306	309
75°	200	172	150	154	177	209
85°	88	92	70	68	71	90
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1764.1	1764.1	1764.1	1764.1	1764.1
2.5°	1764.1	1760.5	1758.7	1764.9	1768.5
5°	1756.0	1751.6	1751.6	1760.5	1765.8
7.5°	1741.8	1737.3	1742.6	1750.7	1756.0
10°	1721.2	1719.4	1723.0	1733.7	1740.9
12.5°	1694.5	1695.4	1698.9	1715.9	1724.8
15°	1661.4	1665.0	1673.0	1690.9	1701.6
17.5°	1625.8	1628.4	1640.9	1661.4	1676.6
20°	1582.9	1588.3	1603.4	1629.3	1644.5
22.5°	1535.6	1541.9	1560.6	1591.8	1610.6
25°	1482.1	1488.3	1512.4	1548.1	1567.8
27.5°	1421.4	1431.2	1458.0	1497.3	1524.0
30°	1357.2	1365.2	1395.5	1440.2	1462.5
32.5°	1288.5	1298.3	1326.8	1369.7	1389.3
35°	1216.2	1221.5	1250.1	1287.6	1313.5
37.5°	1134.1	1136.8	1163.5	1198.3	1221.5
40°	1045.8	1047.5	1071.6	1104.7	1125.2
42.5°	953.9	954.8	980.6	1005.6	1023.5
45°	857.5	867.3	888.7	910.1	920.8
47.5°	770.9	778.1	797.7	816.4	826.3
50°	680.8	698.7	712.0	721.9	733.5
52.5°	603.2	618.4	621.9	633.5	643.3
55°	528.2	538.9	535.4	545.2	555.0
57.5°	464.9	459.5	447.9	464.9	477.4
60°	405.1	390.8	371.2	394.4	413.1
62.5°	351.6	328.4	304.3	327.5	358.7
65°	304.3	280.2	250.7	273.0	306.1
67.5°	268.6	243.6	208.8	231.1	264.1
70°	241.8	215.9	180.2	199.0	228.4
72.5°	220.4	192.7	161.5	174.0	199.0
75°	199.9	172.2	149.9	153.5	176.7
77.5°	175.8	155.3	137.4	135.6	153.5
80°	147.2	141.0	119.6	116.9	126.7
82.5°	121.4	118.7	98.2	95.5	99.0
85°	88.3	91.9	69.6	67.8	71.4
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)