

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: P292515

Luminaire Tested: **22GR-LD5-43-A125-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292515  
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-5700K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4085.0 lumens  
Efficiency: N/A  
Efficacy: 112.6 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

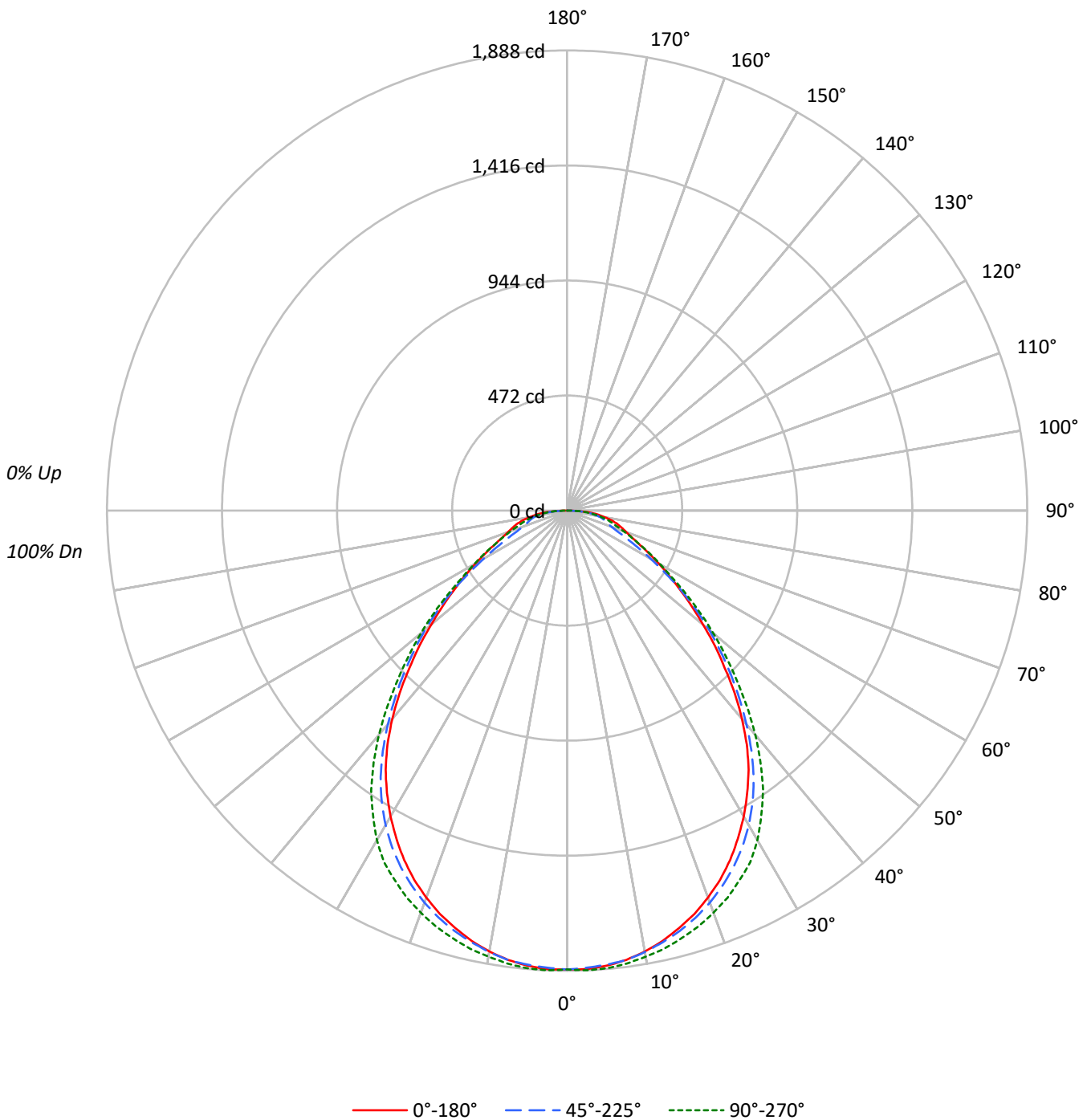
Input Watts (W): 36.27  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	5067	5067	5067
5°	5063	5050	5092
10°	5020	5026	5078
15°	4941	4975	5060
20°	4838	4901	5027
25°	4697	4793	4969
30°	4502	4629	4851
35°	4265	4384	4606
40°	3921	4018	4219
45°	3483	3610	3741
50°	3042	3182	3278
55°	2645	2681	2779
60°	2327	2132	2373
65°	2068	1704	2080
70°	2031	1514	1918
75°	2218	1664	1961
80°	2436	1977	2095
85°	2912	2294	2353



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	178.0	4.4
10°-20°	504.7	12.4
20°-30°	745.0	18.2
30°-40°	833.7	20.4
40°-50°	732.1	17.9
50°-60°	518.0	12.7
60°-70°	301.5	7.4
70°-80°	187.9	4.6
80°-90°	84.1	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°	1427.7	34.9
0°-40°	2261.3	55.4
0°-60°	3511.5	86.0
0°-90°	4085.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4085.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1883	1883	1883	1883	1883	
5°	1874	1870	1870	1879	1885	178
15°	1774	1777	1786	1805	1816	500
25°	1582	1589	1614	1652	1673	727
35°	1298	1304	1334	1374	1402	807
45°	915	926	949	972	983	708
55°	564	575	572	582	592	510
65°	325	299	268	291	327	329
75°	213	184	160	164	189	223
85°	94	98	74	72	76	96
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1883.0	1883.0	1883.0	1883.0	1883.0
2.5°	1883.0	1879.2	1877.3	1883.9	1887.7
5°	1874.4	1869.6	1869.6	1879.2	1884.9
7.5°	1859.2	1854.4	1860.1	1868.7	1874.4
10°	1837.3	1835.4	1839.2	1850.6	1858.2
12.5°	1808.7	1809.6	1813.5	1831.6	1841.1
15°	1773.5	1777.3	1785.8	1804.9	1816.3
17.5°	1735.4	1738.2	1751.5	1773.5	1789.6
20°	1689.6	1695.4	1711.5	1739.2	1755.4
22.5°	1639.2	1645.8	1665.8	1699.2	1719.2
25°	1582.0	1588.7	1614.4	1652.5	1673.4
27.5°	1517.2	1527.7	1556.3	1598.2	1626.8
30°	1448.7	1457.2	1489.6	1537.2	1561.1
32.5°	1375.3	1385.8	1416.3	1462.0	1483.0
35°	1298.2	1303.9	1334.4	1374.4	1402.0
37.5°	1210.6	1213.4	1242.0	1279.1	1303.9
40°	1116.3	1118.2	1143.9	1179.1	1201.0
42.5°	1018.2	1019.1	1046.7	1073.4	1092.5
45°	915.3	925.8	948.6	971.5	982.9
47.5°	822.9	830.5	851.5	871.5	882.0
50°	726.7	745.8	760.1	770.5	782.9
52.5°	643.9	660.0	663.9	676.2	686.7
55°	563.8	575.3	571.5	581.9	592.4
57.5°	496.2	490.5	478.1	496.2	509.6
60°	432.4	417.2	396.2	421.0	441.0
62.5°	375.3	350.5	324.8	349.5	382.9
65°	324.8	299.1	267.6	291.4	326.7
67.5°	286.7	260.0	222.9	246.7	281.9
70°	258.1	230.5	192.4	212.4	243.8
72.5°	235.3	205.7	172.4	185.7	212.4
75°	213.3	183.8	160.0	163.8	188.6
77.5°	187.6	165.7	146.7	144.8	163.8
80°	157.2	150.5	127.6	124.8	135.2
82.5°	129.5	126.7	104.8	101.9	105.7
85°	94.3	98.1	74.3	72.4	76.2
87.5°	49.5	54.3	39.1	41.0	41.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)