

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: P292451

Luminaire Tested: **22GR-LD5-43-A125-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292451  
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-L93050-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: 3978.0 lumens  
Efficiency: N/A  
Efficacy: 110.2 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

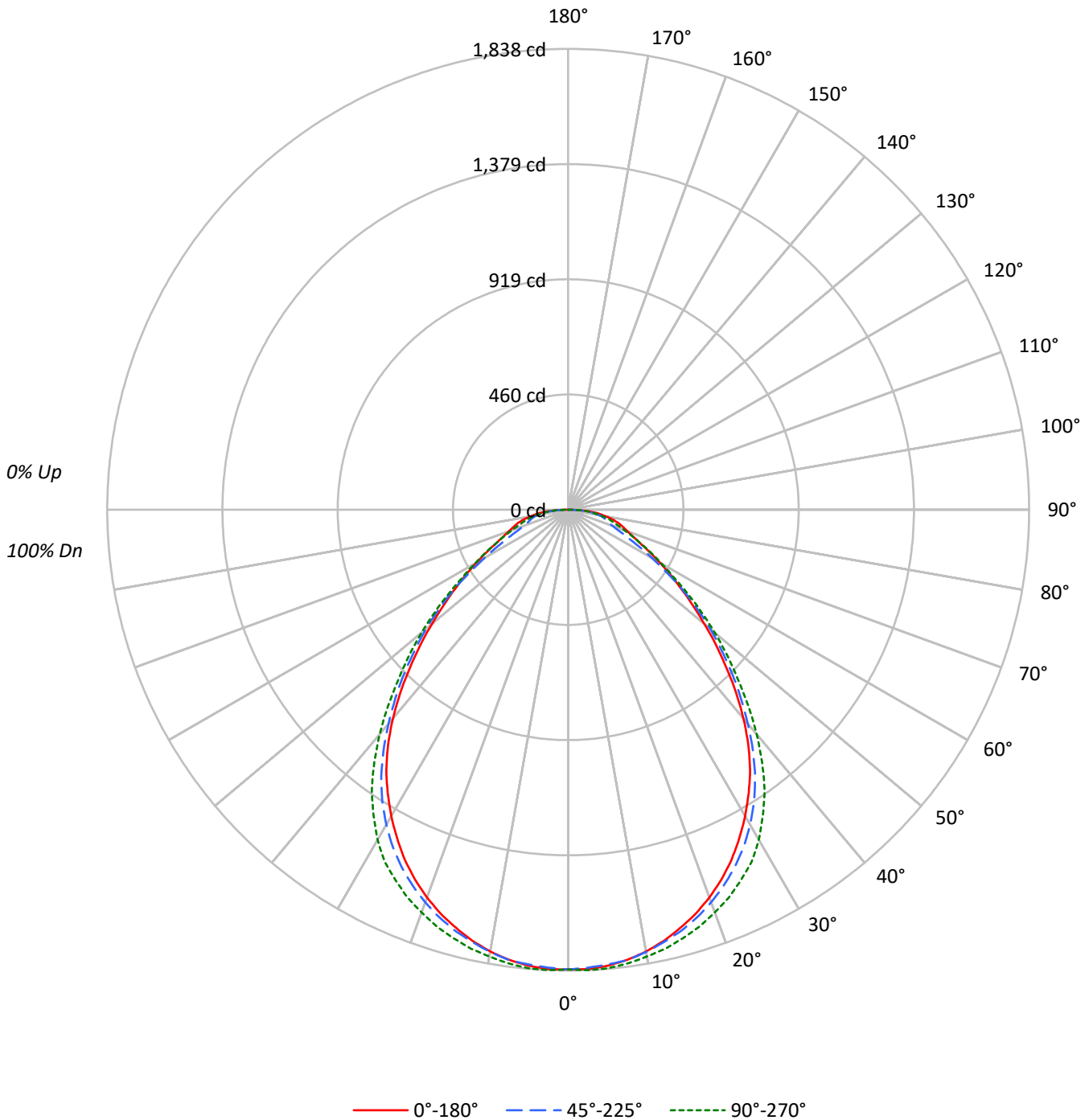
Input Watts (W): 36.084  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4934	4934	4934
5°	4931	4918	4958
10°	4889	4894	4944
15°	4811	4845	4927
20°	4712	4773	4895
25°	4574	4668	4839
30°	4383	4507	4724
35°	4153	4269	4485
40°	3818	3913	4109
45°	3392	3516	3643
50°	2963	3098	3192
55°	2576	2611	2707
60°	2266	2076	2311
65°	2014	1659	2025
70°	1978	1474	1868
75°	2161	1620	1909
80°	2371	1926	2041
85°	2834	2232	2291



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	173.3	4.4
10°-20°	491.5	12.4
20°-30°	725.5	18.2
30°-40°	811.8	20.4
40°-50°	712.9	17.9
50°-60°	504.5	12.7
60°-70°	293.6	7.4
70°-80°	183.0	4.6
80°-90°	81.9	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°	1390.3	34.9
0°-40°	2202.1	55.4
0°-60°	3419.5	86.0
0°-90°	3978.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3978.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1834	1834	1834	1834	1834	
5°	1825	1821	1821	1830	1836	173
15°	1727	1731	1739	1758	1769	487
25°	1541	1547	1572	1609	1630	708
35°	1264	1270	1299	1338	1365	786
45°	891	902	924	946	957	689
55°	549	560	556	567	577	496
65°	316	291	261	284	318	321
75°	208	179	156	160	184	217
85°	92	96	72	70	74	93
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1833.7	1833.7	1833.7	1833.7	1833.7
2.5°	1833.7	1830.0	1828.1	1834.6	1838.3
5°	1825.3	1820.7	1820.7	1830.0	1835.5
7.5°	1810.5	1805.8	1811.4	1819.7	1825.3
10°	1789.1	1787.3	1791.0	1802.1	1809.5
12.5°	1761.3	1762.2	1766.0	1783.6	1792.9
15°	1727.0	1730.7	1739.1	1757.6	1768.7
17.5°	1689.9	1692.7	1705.7	1727.0	1742.8
20°	1645.4	1650.9	1666.7	1693.6	1709.4
22.5°	1596.2	1602.7	1622.2	1654.7	1674.1
25°	1540.6	1547.1	1572.1	1609.2	1629.6
27.5°	1477.5	1487.7	1515.5	1556.3	1584.2
30°	1410.7	1419.1	1450.6	1497.0	1520.2
32.5°	1339.3	1349.5	1379.2	1423.7	1444.1
35°	1264.2	1269.7	1299.4	1338.4	1365.3
37.5°	1178.8	1181.6	1209.5	1245.6	1269.7
40°	1087.0	1088.9	1113.9	1148.2	1169.6
42.5°	991.5	992.4	1019.3	1045.3	1063.8
45°	891.3	901.5	923.8	946.0	957.2
47.5°	801.4	808.8	829.2	848.7	858.9
50°	707.7	726.2	740.1	750.3	762.4
52.5°	627.0	642.8	646.5	658.5	668.7
55°	549.1	560.2	556.5	566.7	576.9
57.5°	483.2	477.7	465.6	483.2	496.2
60°	421.1	406.2	385.8	410.0	429.4
62.5°	365.4	341.3	316.3	340.4	372.9
65°	316.3	291.2	260.6	283.8	318.1
67.5°	279.2	253.2	217.0	240.2	274.5
70°	251.4	224.5	187.4	206.8	237.4
72.5°	229.1	200.3	167.9	180.9	206.8
75°	207.8	179.0	155.8	159.5	183.6
77.5°	182.7	161.4	142.8	141.0	159.5
80°	153.0	146.5	124.3	121.5	131.7
82.5°	126.1	123.4	102.0	99.2	103.0
85°	91.8	95.5	72.3	70.5	74.2
87.5°	48.2	52.9	38.0	39.9	40.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)