

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: P291222

Luminaire Tested: **14GR-LD5-36-A125-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P291222  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33315)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14GR-LD5-36-A125-UNV-L82765-W2A1-U-5500K  
Description: GRLED 1x4 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3845.0 lumens  
Efficiency: N/A  
Efficacy: 127.6 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.21 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

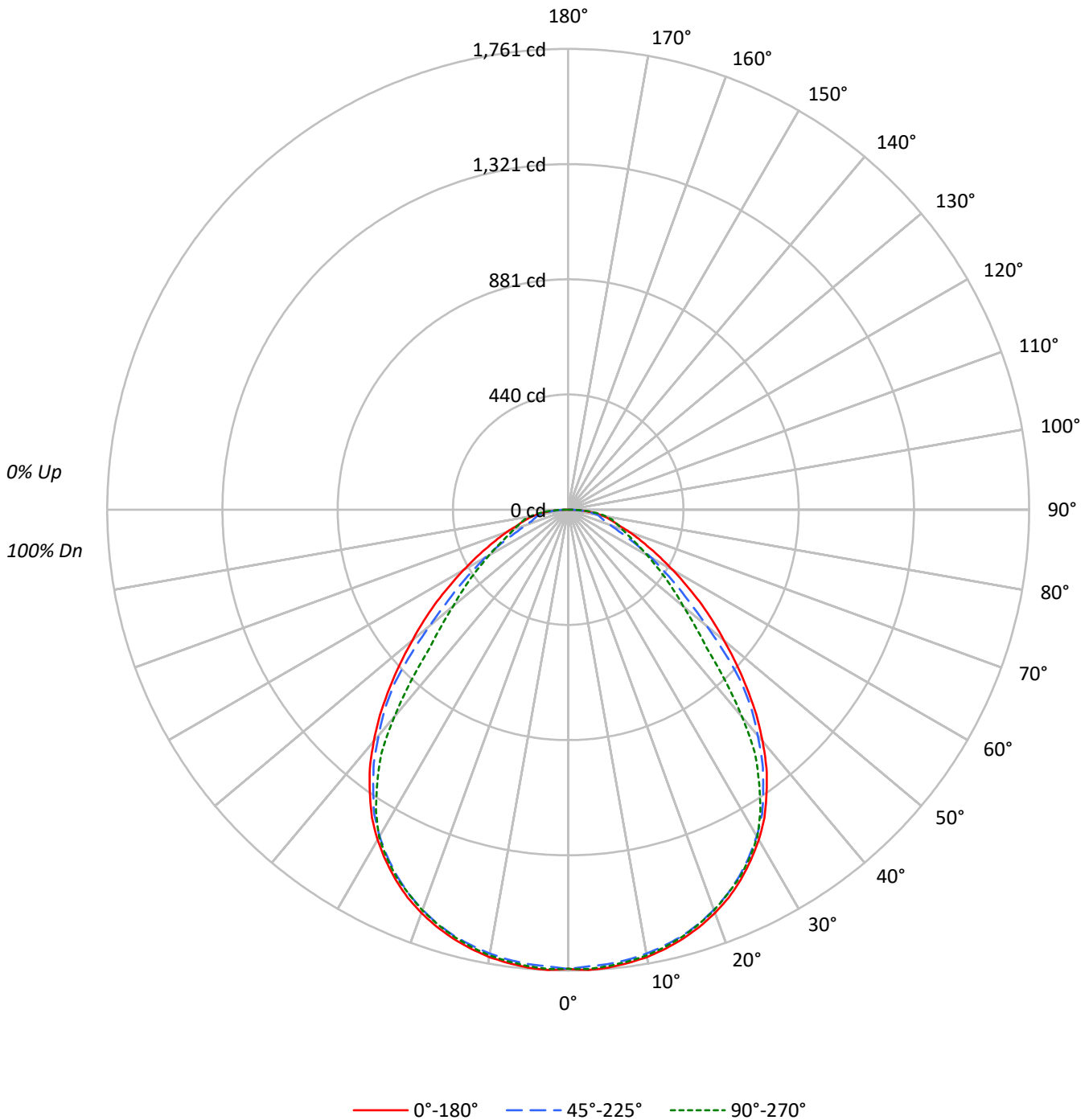
Input Watts (W): 30.132  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	88	82	99	92	86	82	88	84	80	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58	56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44
7	69	56	48	43	67	56	48	42	54	47	42	53	47	42	52	46	42	40
8	65	52	44	38	63	51	44	38	50	43	38	49	42	38	48	42	38	36
9	60	48	40	35	59	47	40	35	46	39	35	45	39	34	44	38	34	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	35	31	30

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

	0°	45°	90°
0°	4722	4722	4722
5°	4744	4708	4730
10°	4743	4707	4726
15°	4727	4697	4704
20°	4695	4659	4664
25°	4632	4590	4603
30°	4526	4476	4488
35°	4340	4267	4176
40°	4058	3958	3632
45°	3673	3568	2848
50°	3249	2887	2401
55°	2875	2373	2118
60°	2482	1963	1877
65°	2159	1562	1727
70°	1951	1341	1726
75°	1874	1400	1929
80°	2087	1784	2253
85°	2205	1899	2699



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	166.4	4.3
10°-20°	477.0	12.4
20°-30°	713.8	18.6
30°-40°	808.0	21.0
40°-50°	688.2	17.9
50°-60°	466.0	12.1
60°-70°	278.2	7.2
70°-80°	173.8	4.5
80°-90°	73.5	1.9
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°	1357.2	35.3
0°-40°	2165.2	56.3
0°-60°	3319.5	86.3
0°-90°	3845.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3845.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1755	1755	1755	1755	1755	
5°	1756	1752	1743	1754	1751	167
15°	1697	1690	1686	1697	1689	479
25°	1560	1556	1546	1553	1550	718
35°	1321	1313	1299	1285	1271	823
45°	965	968	938	799	748	744
55°	613	579	506	451	451	548
65°	339	283	245	262	271	342
75°	180	162	135	177	186	195
85°	71	66	62	78	87	76
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1754.6	1754.6	1754.6	1754.6	1754.6
2.5°	1760.8	1756.4	1746.6	1758.2	1756.4
5°	1756.4	1751.9	1743.0	1753.7	1751.0
7.5°	1747.5	1743.0	1735.0	1745.7	1741.2
10°	1735.9	1730.5	1722.5	1734.1	1729.6
12.5°	1718.0	1712.7	1705.5	1717.1	1710.9
15°	1696.6	1690.4	1685.9	1696.6	1688.6
17.5°	1670.7	1665.4	1659.1	1669.9	1660.9
20°	1639.5	1635.1	1627.0	1633.3	1628.8
22.5°	1603.8	1597.6	1589.6	1596.7	1590.5
25°	1560.1	1555.7	1545.9	1553.0	1550.3
27.5°	1510.2	1507.5	1495.9	1504.8	1500.4
30°	1456.7	1449.5	1440.6	1443.3	1444.2
32.5°	1395.1	1386.2	1379.1	1372.8	1366.6
35°	1321.1	1313.0	1298.8	1285.4	1271.1
37.5°	1244.4	1233.7	1219.4	1189.9	1172.1
40°	1155.2	1149.8	1126.6	1085.6	1033.8
42.5°	1064.2	1058.8	1038.3	946.4	890.2
45°	965.2	967.8	937.5	799.2	748.4
47.5°	870.6	877.7	811.7	682.4	655.6
50°	776.1	784.1	689.5	589.6	573.6
52.5°	693.1	686.9	587.8	517.4	510.2
55°	612.8	578.9	505.8	451.4	451.4
57.5°	530.7	482.6	430.0	395.2	395.2
60°	461.2	401.4	364.8	341.6	348.8
62.5°	396.9	333.6	302.4	297.9	306.9
65°	339.0	282.8	245.3	262.3	271.2
67.5°	291.7	241.7	201.6	237.3	242.6
70°	248.0	210.5	170.4	218.5	219.4
72.5°	207.8	185.5	146.3	198.0	201.6
75°	180.2	161.5	134.7	176.6	185.5
77.5°	157.9	138.3	124.0	152.5	169.5
80°	134.7	113.3	115.1	128.5	145.4
82.5°	103.5	87.4	91.0	105.3	118.6
85°	71.4	66.0	61.5	77.6	87.4
87.5°	38.4	35.7	31.2	43.7	44.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)