

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: P291329

Luminaire Tested: **14GR-LD5-40-A125-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291329
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-LD5-40-A125-UNV-L92765-W2A1-U-5500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3884.0 lumens
Efficiency: N/A
Efficacy: 112.3 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

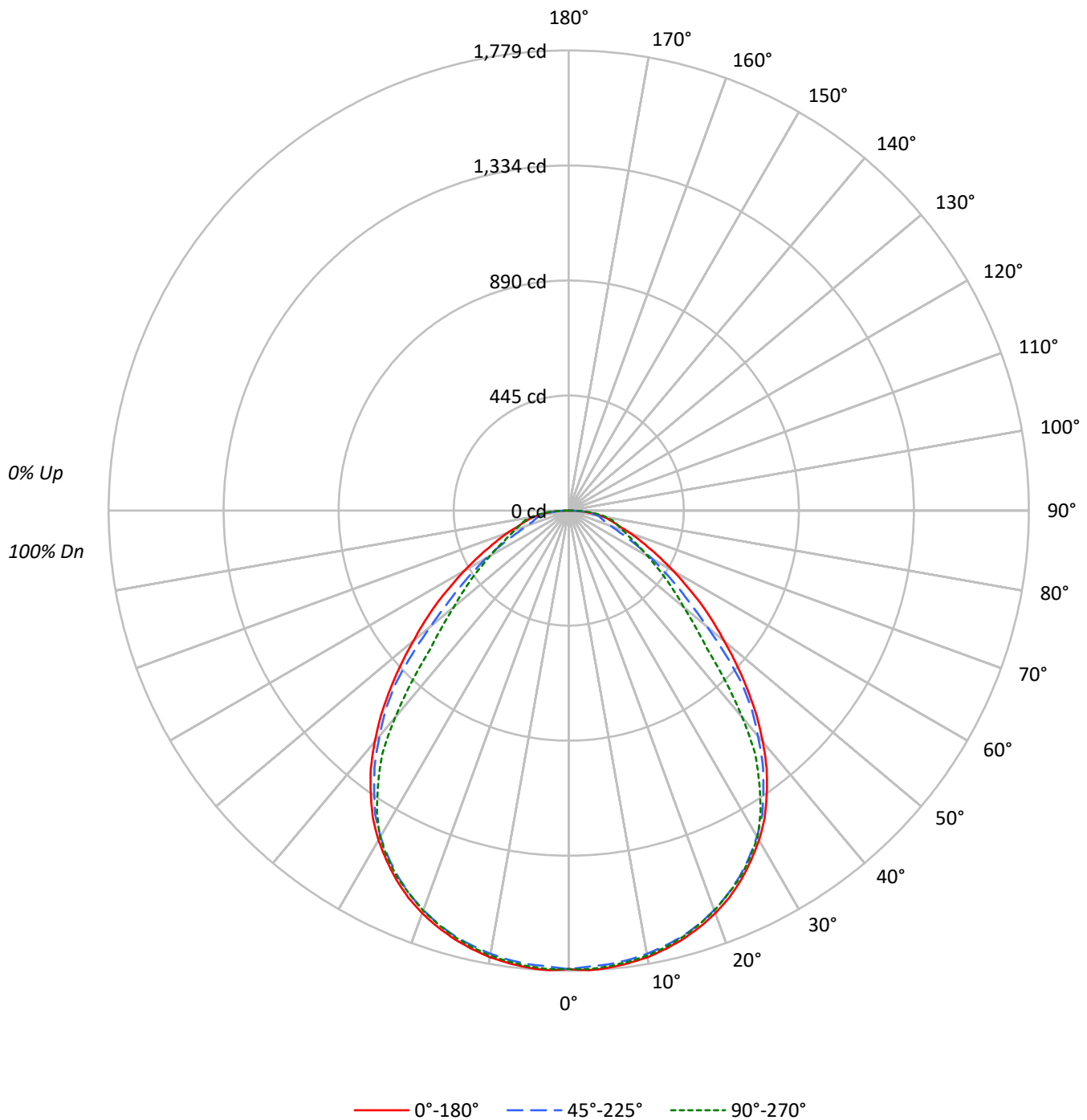
Input Watts (W): 34.596
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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°	4769	4769	4769
5°	4793	4756	4778
10°	4791	4755	4774
15°	4774	4744	4752
20°	4743	4706	4712
25°	4679	4636	4650
30°	4572	4522	4533
35°	4384	4310	4218
40°	4099	3998	3668
45°	3710	3604	2877
50°	3282	2916	2426
55°	2904	2397	2139
60°	2507	1983	1896
65°	2180	1578	1744
70°	1971	1354	1744
75°	1892	1415	1948
80°	2109	1801	2276
85°	2226	1920	2726



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.1	4.3
10°-20°	481.8	12.4
20°-30°	721.0	18.6
30°-40°	816.2	21.0
40°-50°	695.2	17.9
50°-60°	470.7	12.1
60°-70°	281.0	7.2
70°-80°	175.6	4.5
80°-90°	74.2	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°	1371.0	35.3
0°-40°	2187.2	56.3
0°-60°	3353.1	86.3
0°-90°	3884.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3884.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1772	1772	1772	1772	1772	
5°	1774	1770	1761	1772	1769	169
15°	1714	1708	1703	1714	1706	483
25°	1576	1572	1562	1569	1566	725
35°	1334	1326	1312	1298	1284	832
45°	975	978	947	807	756	752
55°	619	585	511	456	456	553
65°	342	286	248	265	274	345
75°	182	163	136	178	187	197
85°	72	67	62	78	88	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1772.4	1772.4	1772.4	1772.4	1772.4
2.5°	1778.7	1774.2	1764.3	1776.0	1774.2
5°	1774.2	1769.7	1760.7	1771.5	1768.8
7.5°	1765.2	1760.7	1752.6	1763.4	1758.9
10°	1753.5	1748.1	1740.0	1751.7	1747.2
12.5°	1735.4	1730.0	1722.8	1734.5	1728.2
15°	1713.8	1707.5	1703.0	1713.8	1705.7
17.5°	1687.7	1682.3	1676.0	1686.8	1677.8
20°	1656.2	1651.6	1643.5	1649.8	1645.3
22.5°	1620.1	1613.8	1605.7	1612.9	1606.6
25°	1576.0	1571.5	1561.5	1568.8	1566.0
27.5°	1525.5	1522.8	1511.1	1520.1	1515.6
30°	1471.4	1464.2	1455.2	1457.9	1458.8
32.5°	1409.3	1400.3	1393.0	1386.7	1380.4
35°	1334.5	1326.4	1311.9	1298.4	1284.0
37.5°	1257.0	1246.2	1231.8	1202.0	1184.0
40°	1166.9	1161.5	1138.0	1096.6	1044.3
42.5°	1075.0	1069.6	1048.8	956.0	899.3
45°	975.0	977.7	947.0	807.4	756.0
47.5°	879.4	886.6	820.0	689.3	662.3
50°	783.9	792.0	696.5	595.6	579.4
52.5°	700.1	693.8	593.8	522.6	515.4
55°	619.0	584.8	510.9	455.9	455.9
57.5°	536.1	487.5	434.3	399.2	399.2
60°	465.8	405.5	368.5	345.1	352.3
62.5°	401.0	337.0	305.5	301.0	310.0
65°	342.4	285.6	247.8	264.9	273.9
67.5°	294.6	244.2	203.6	239.7	245.1
70°	250.5	212.7	172.1	220.8	221.7
72.5°	209.9	187.4	147.8	200.0	203.6
75°	182.0	163.1	136.1	178.4	187.4
77.5°	159.5	139.7	125.2	154.1	171.2
80°	136.1	114.4	116.2	129.8	146.9
82.5°	104.5	88.3	91.9	106.3	119.8
85°	72.1	66.7	62.2	78.4	88.3
87.5°	38.7	36.0	31.5	44.2	45.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)