

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: P291330

Luminaire Tested: **14GR-LD5-40-A125-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291330
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-5700K
Description: GRLED 1x4 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: 3901.0 lumens
Efficiency: N/A
Efficacy: 112.5 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

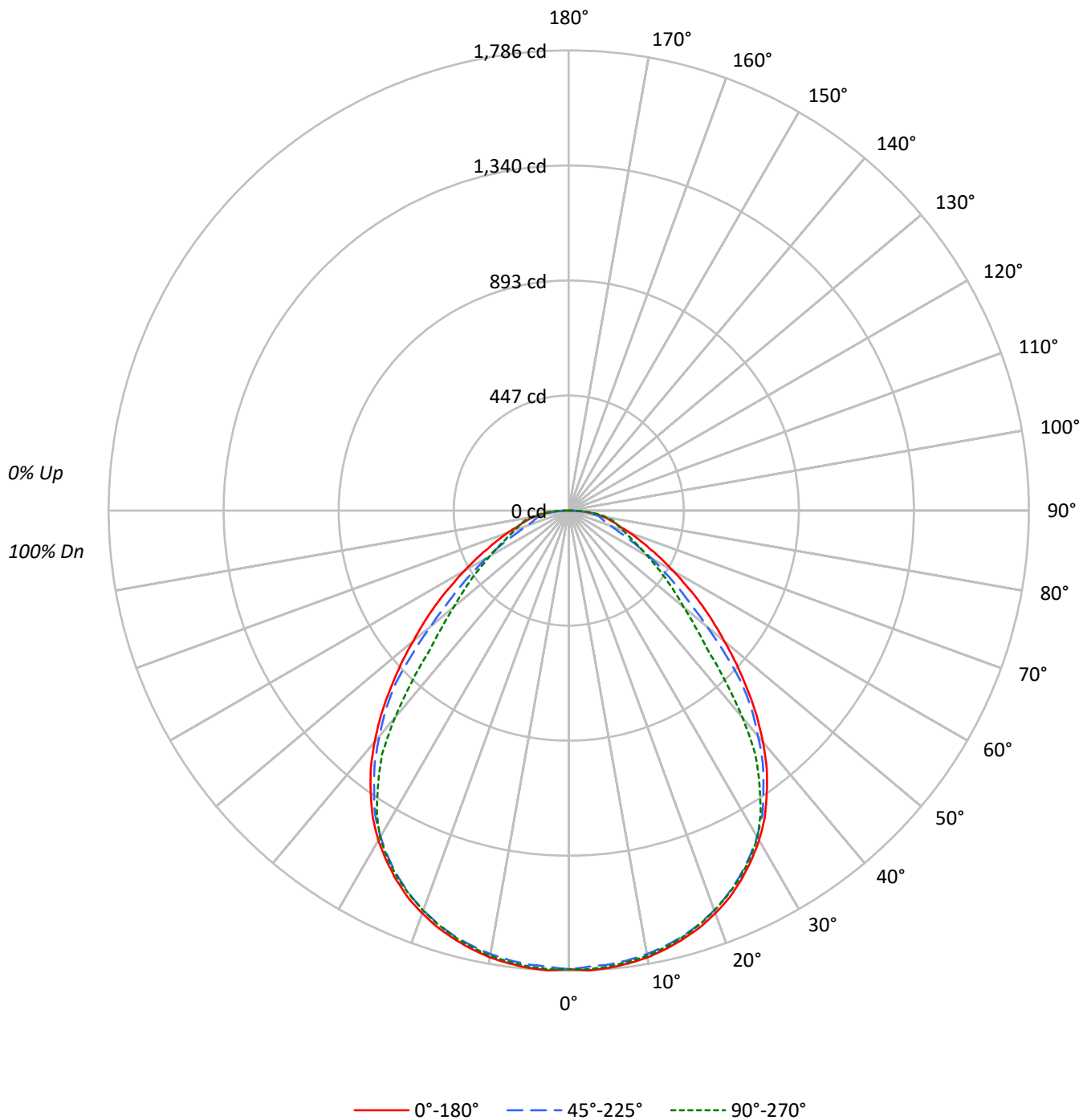
Input Watts (W): 34.689
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P291330

CATALOG NUMBER: 14GR-LD5-40-A125-UNV-L92765-W2A1-U-5700K

Luminous Intensity Polar Plot





TEST NUMBER: P291330

CATALOG NUMBER: 14GR-LD5-40-A125-UNV-L92765-W2A1-U-5700K

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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	110	106	102	98	107	103	100	97		99	96	94		95	93	91		92	90	88
2	101	94	88	82	99	92	86	82		88	84	80		85	81	78		82	79	76
3	93	84	76	70	91	82	75	70		79	73	69		77	72	67		74	70	66
4	86	75	67	61	84	74	66	61		71	65	60		69	64	59		67	62	58
5	80	68	60	54	78	67	59	53		65	58	53		63	57	52		61	56	52
6	74	62	54	48	72	61	53	47		59	52	47		58	51	47		56	51	46
7	69	56	48	43	67	56	48	42		54	47	42		53	47	42		52	46	42
8	65	52	44	38	63	51	44	38		50	43	38		49	42	38		48	42	38
9	60	48	40	35	59	47	40	35		46	39	35		45	39	34		44	38	34
10	57	44	37	32	56	44	37	32		43	36	32		42	36	32		41	35	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4790	4790	4790
5°	4814	4777	4799
10°	4812	4775	4795
15°	4795	4765	4773
20°	4763	4727	4732
25°	4700	4657	4670
30°	4592	4542	4553
35°	4403	4329	4236
40°	4117	4015	3685
45°	3726	3620	2890
50°	3296	2929	2436
55°	2917	2407	2148
60°	2518	1992	1905
65°	2190	1585	1752
70°	1980	1360	1751
75°	1901	1421	1957
80°	2118	1808	2286
85°	2235	1927	2739



TEST NUMBER: P291330

CATALOG NUMBER: 14GR-LD5-40-A125-UNV-L92765-W2A1-U-5700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.9	4.3
10°-20°	483.9	12.4
20°-30°	724.2	18.6
30°-40°	819.8	21.0
40°-50°	698.3	17.9
50°-60°	472.8	12.1
60°-70°	282.3	7.2
70°-80°	176.4	4.5
80°-90°	74.5	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°	1377.0	35.3
0°-40°	2196.7	56.3
0°-60°	3367.8	86.3
0°-90°	3901.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3901.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1780	1780	1780	1780	1780	
5°	1782	1777	1768	1779	1776	169
15°	1721	1715	1710	1721	1713	486
25°	1583	1578	1568	1576	1573	728
35°	1340	1332	1318	1304	1290	835
45°	979	982	951	811	759	755
55°	622	587	513	458	458	556
65°	344	287	249	266	275	347
75°	183	164	137	179	188	197
85°	72	67	62	79	89	77
90°	0	0	0	0	0	



TEST NUMBER: P291330

CATALOG NUMBER: 14GR-LD5-40-A125-UNV-L92765-W2A1-U-5700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1780.1	1780.1	1780.1	1780.1	1780.1
2.5°	1786.5	1782.0	1772.0	1783.8	1782.0
5°	1782.0	1777.4	1768.4	1779.2	1776.5
7.5°	1772.9	1768.4	1760.2	1771.1	1766.6
10°	1761.1	1755.7	1747.6	1759.3	1754.8
12.5°	1743.0	1737.6	1730.4	1742.1	1735.8
15°	1721.3	1715.0	1710.5	1721.3	1713.2
17.5°	1695.1	1689.6	1683.3	1694.2	1685.1
20°	1663.4	1658.9	1650.7	1657.1	1652.5
22.5°	1627.2	1620.9	1612.7	1620.0	1613.6
25°	1582.9	1578.3	1568.4	1575.6	1572.9
27.5°	1532.2	1529.5	1517.7	1526.7	1522.2
30°	1477.9	1470.6	1461.6	1464.3	1465.2
32.5°	1415.4	1406.4	1399.1	1392.8	1386.5
35°	1340.3	1332.2	1317.7	1304.1	1289.6
37.5°	1262.5	1251.6	1237.1	1207.3	1189.2
40°	1172.0	1166.6	1143.0	1101.4	1048.9
42.5°	1079.7	1074.2	1053.4	960.2	903.2
45°	979.2	981.9	951.2	810.9	759.3
47.5°	883.3	890.5	823.6	692.3	665.2
50°	787.4	795.5	699.6	598.2	581.9
52.5°	703.2	696.9	596.4	524.9	517.7
55°	621.7	587.3	513.1	457.9	457.9
57.5°	538.5	489.6	436.2	400.9	400.9
60°	467.9	407.3	370.1	346.6	353.9
62.5°	402.7	338.5	306.8	302.3	311.3
65°	343.9	286.9	248.9	266.1	275.1
67.5°	295.9	245.3	204.5	240.7	246.2
70°	251.6	213.6	172.9	221.7	222.6
72.5°	210.9	188.2	148.4	200.9	204.5
75°	182.8	163.8	136.7	179.2	188.2
77.5°	160.2	140.3	125.8	154.8	172.0
80°	136.7	114.9	116.7	130.3	147.5
82.5°	105.0	88.7	92.3	106.8	120.4
85°	72.4	67.0	62.4	78.7	88.7
87.5°	38.9	36.2	31.7	44.3	45.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)