

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: P291328

Luminaire Tested: **14GR-LD5-40-A125-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291328
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-5000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3825.0 lumens
Efficiency: N/A
Efficacy: 111.2 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

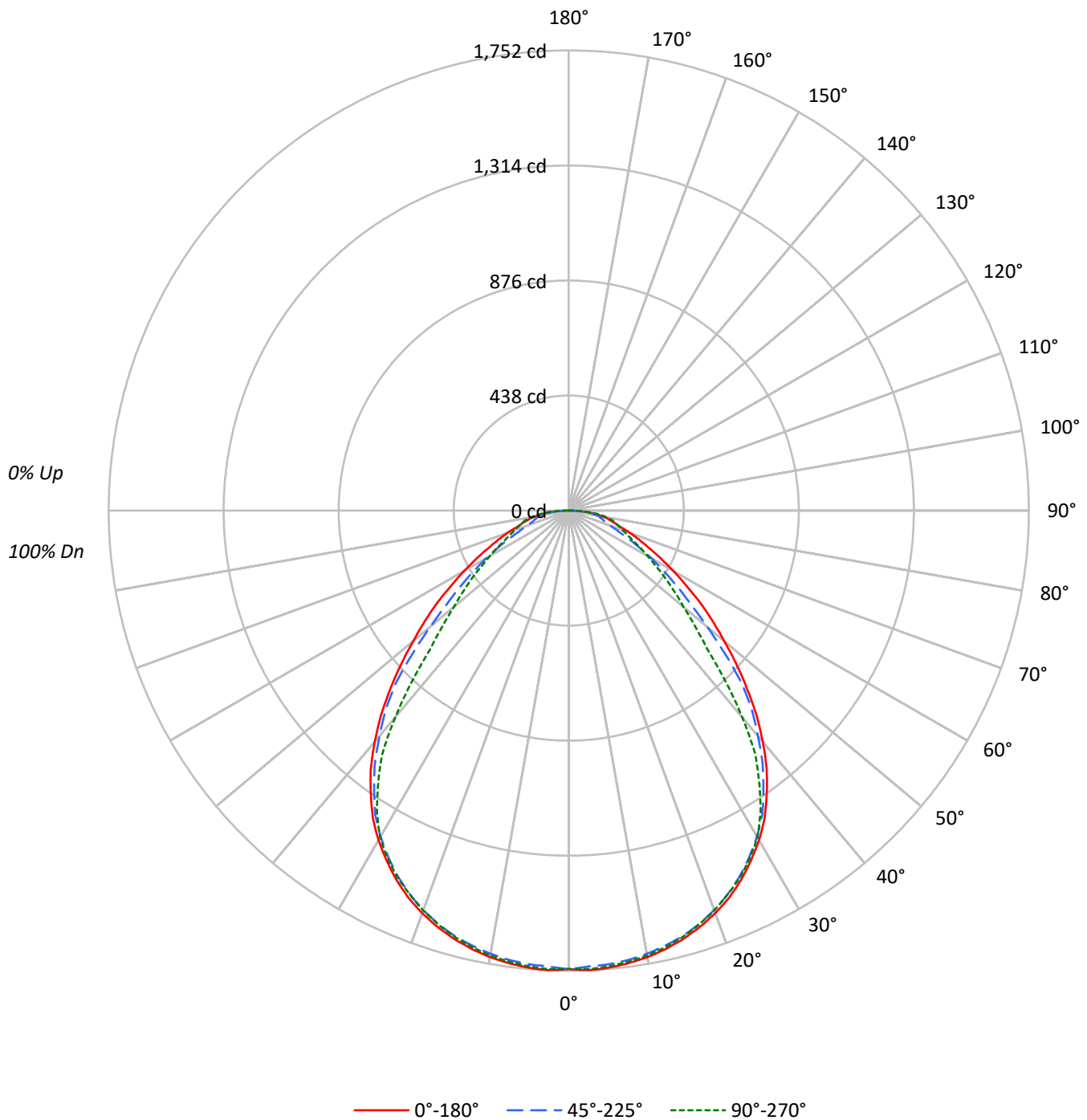
Input Watts (W): 34.41
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	106	102	98	107	103	100	97	99	96	94		95	93	91		92
2	101	94	88	82	99	92	86	82	88	84	80		85	81	78		82
3	93	84	76	70	91	82	75	70	79	73	69		77	72	67		74
4	86	75	67	61	84	74	66	61	71	65	60		69	64	59		67
5	80	68	60	54	78	67	59	53	65	58	53		63	57	52		61
6	74	62	54	48	72	61	53	47	59	52	47		58	51	47		56
7	69	56	48	43	67	56	48	42	54	47	42		53	47	42		52
8	65	52	44	38	63	51	44	38	50	43	38		49	42	38		48
9	60	48	40	35	59	47	40	35	46	39	35		45	39	34		44
10	57	44	37	32	56	44	37	32	43	36	32		42	36	32		41

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4697	4697	4697
5°	4720	4684	4705
10°	4718	4682	4702
15°	4702	4672	4680
20°	4671	4635	4640
25°	4608	4566	4579
30°	4503	4453	4464
35°	4317	4244	4154
40°	4037	3937	3613
45°	3654	3549	2833
50°	3232	2871	2389
55°	2860	2360	2107
60°	2469	1953	1868
65°	2147	1554	1718
70°	1941	1334	1718
75°	1863	1393	1919
80°	2077	1774	2241
85°	2192	1890	2686



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.6	4.3
10°-20°	474.5	12.4
20°-30°	710.1	18.6
30°-40°	803.8	21.0
40°-50°	684.7	17.9
50°-60°	463.6	12.1
60°-70°	276.8	7.2
70°-80°	172.9	4.5
80°-90°	73.1	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°	1350.1	35.3
0°-40°	2154.0	56.3
0°-60°	3302.2	86.3
0°-90°	3825.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3825.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1746	1746	1746	1746	1746	
5°	1747	1743	1734	1745	1742	166
15°	1688	1682	1677	1688	1680	476
25°	1552	1548	1538	1545	1542	714
35°	1314	1306	1292	1279	1264	819
45°	960	963	933	795	744	740
55°	610	576	503	449	449	545
65°	337	281	244	261	270	340
75°	179	161	134	176	185	194
85°	71	66	61	77	87	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1745.5	1745.5	1745.5	1745.5	1745.5
2.5°	1751.7	1747.2	1737.5	1749.0	1747.2
5°	1747.2	1742.8	1733.9	1744.6	1741.9
7.5°	1738.4	1733.9	1725.9	1736.6	1732.2
10°	1726.8	1721.5	1713.5	1725.1	1720.6
12.5°	1709.1	1703.8	1696.7	1708.2	1702.0
15°	1687.8	1681.6	1677.1	1687.8	1679.8
17.5°	1662.1	1656.7	1650.5	1661.2	1652.3
20°	1631.0	1626.6	1618.6	1624.8	1620.3
22.5°	1595.5	1589.3	1581.3	1588.4	1582.2
25°	1552.0	1547.6	1537.8	1544.9	1542.3
27.5°	1502.3	1499.7	1488.1	1497.0	1492.6
30°	1449.1	1442.0	1433.1	1435.8	1436.7
32.5°	1387.9	1379.0	1371.9	1365.7	1359.5
35°	1314.2	1306.2	1292.0	1278.7	1264.5
37.5°	1237.9	1227.2	1213.0	1183.8	1166.0
40°	1149.2	1143.8	1120.8	1079.9	1028.5
42.5°	1058.6	1053.3	1032.9	941.5	885.6
45°	960.1	962.8	932.6	795.1	744.5
47.5°	866.1	873.2	807.5	678.8	652.2
50°	772.0	780.0	685.9	586.6	570.6
52.5°	689.5	683.3	584.8	514.7	507.6
55°	609.6	575.9	503.1	449.0	449.0
57.5°	528.0	480.1	427.7	393.1	393.1
60°	458.8	399.3	362.9	339.9	347.0
62.5°	394.9	331.9	300.8	296.4	305.3
65°	337.2	281.3	244.0	260.9	269.8
67.5°	290.2	240.5	200.5	236.0	241.4
70°	246.7	209.4	169.5	217.4	218.3
72.5°	206.8	184.6	145.5	197.0	200.5
75°	179.2	160.6	134.0	175.7	184.6
77.5°	157.1	137.5	123.3	151.7	168.6
80°	134.0	112.7	114.5	127.8	144.6
82.5°	102.9	87.0	90.5	104.7	118.0
85°	71.0	65.7	61.2	77.2	87.0
87.5°	38.2	35.5	31.1	43.5	44.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)