

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: P291170

Luminaire Tested: **14GR-LD5-40-A125-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291170
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-L83050-W2A1-U-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3910.0 lumens
Efficiency: N/A
Efficacy: 116.5 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

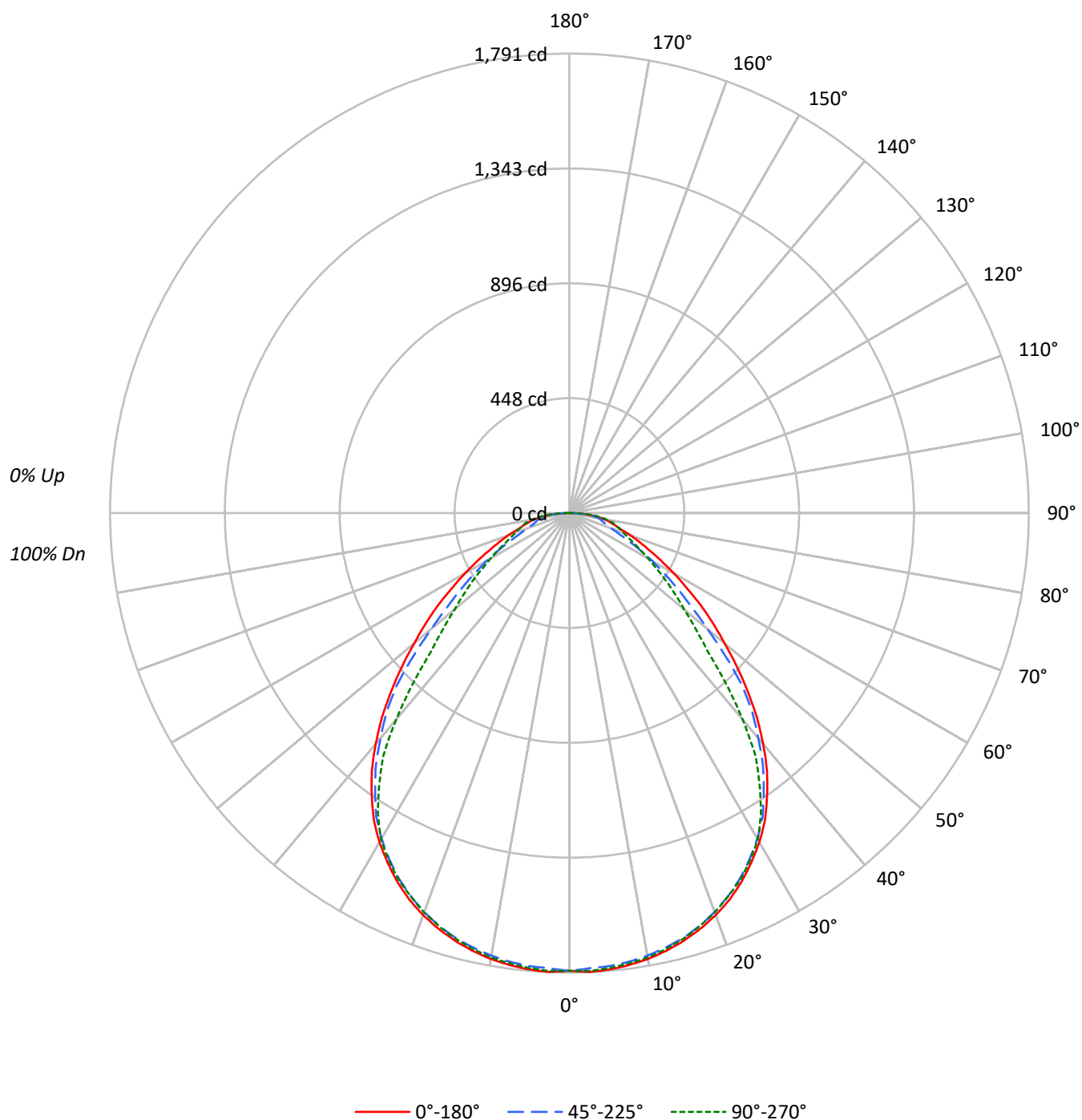
Input Watts (W): 33.573
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4802	4802	4802
5°	4825	4788	4810
10°	4823	4786	4806
15°	4807	4776	4784
20°	4774	4738	4743
25°	4711	4668	4681
30°	4603	4552	4563
35°	4413	4339	4246
40°	4127	4025	3693
45°	3735	3628	2896
50°	3304	2936	2442
55°	2924	2413	2153
60°	2524	1997	1909
65°	2195	1589	1756
70°	1984	1364	1755
75°	1905	1424	1962
80°	2123	1813	2292
85°	2242	1933	2745



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.2	4.3
10°-20°	485.0	12.4
20°-30°	725.9	18.6
30°-40°	821.7	21.0
40°-50°	699.9	17.9
50°-60°	473.9	12.1
60°-70°	282.9	7.2
70°-80°	176.8	4.5
80°-90°	74.7	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°	1380.1	35.3
0°-40°	2201.8	56.3
0°-60°	3375.6	86.3
0°-90°	3910.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3910.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1784	1784	1784	1784	1784	
5°	1786	1782	1772	1783	1781	170
15°	1725	1719	1714	1725	1717	487
25°	1586	1582	1572	1579	1576	730
35°	1343	1335	1321	1307	1293	837
45°	982	984	953	813	761	757
55°	623	589	514	459	459	557
65°	345	288	250	267	276	347
75°	183	164	137	180	189	198
85°	73	67	63	79	89	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1784.3	1784.3	1784.3	1784.3	1784.3
2.5°	1790.6	1786.1	1776.1	1787.9	1786.1
5°	1786.1	1781.5	1772.5	1783.3	1780.6
7.5°	1777.0	1772.5	1764.3	1775.2	1770.6
10°	1765.2	1759.8	1751.6	1763.4	1758.9
12.5°	1747.1	1741.6	1734.4	1746.2	1739.8
15°	1725.3	1718.9	1714.4	1725.3	1717.1
17.5°	1699.0	1693.5	1687.2	1698.1	1689.0
20°	1667.2	1662.7	1654.5	1660.9	1656.4
22.5°	1631.0	1624.6	1616.4	1623.7	1617.4
25°	1586.5	1582.0	1572.0	1579.3	1576.5
27.5°	1535.7	1533.0	1521.2	1530.3	1525.7
30°	1481.3	1474.0	1465.0	1467.7	1468.6
32.5°	1418.7	1409.6	1402.4	1396.0	1389.7
35°	1343.4	1335.2	1320.7	1307.1	1292.6
37.5°	1265.4	1254.5	1240.0	1210.1	1191.9
40°	1174.7	1169.2	1145.7	1103.9	1051.3
42.5°	1082.2	1076.7	1055.9	962.4	905.3
45°	981.5	984.2	953.4	812.8	761.1
47.5°	885.3	892.6	825.5	693.9	666.7
50°	789.2	797.3	701.2	599.6	583.3
52.5°	704.8	698.5	597.8	526.1	518.9
55°	623.2	588.7	514.3	459.0	459.0
57.5°	539.7	490.7	437.2	401.8	401.8
60°	469.0	408.2	371.0	347.4	354.7
62.5°	403.7	339.3	307.5	303.0	312.0
65°	344.7	287.5	249.5	266.7	275.8
67.5°	296.6	245.8	205.0	241.3	246.7
70°	252.2	214.1	173.3	222.2	223.1
72.5°	211.4	188.7	148.8	201.4	205.0
75°	183.2	164.2	137.0	179.6	188.7
77.5°	160.6	140.6	126.1	155.1	172.3
80°	137.0	115.2	117.0	130.6	147.9
82.5°	105.2	88.9	92.5	107.0	120.6
85°	72.6	67.1	62.6	78.9	88.9
87.5°	39.0	36.3	31.7	44.4	45.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)