

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: P291133

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291133
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33314)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-40-A-UNV-L92765-W2A1-U-5500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3881.0 lumens
Efficiency: N/A
Efficacy: 112.2 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

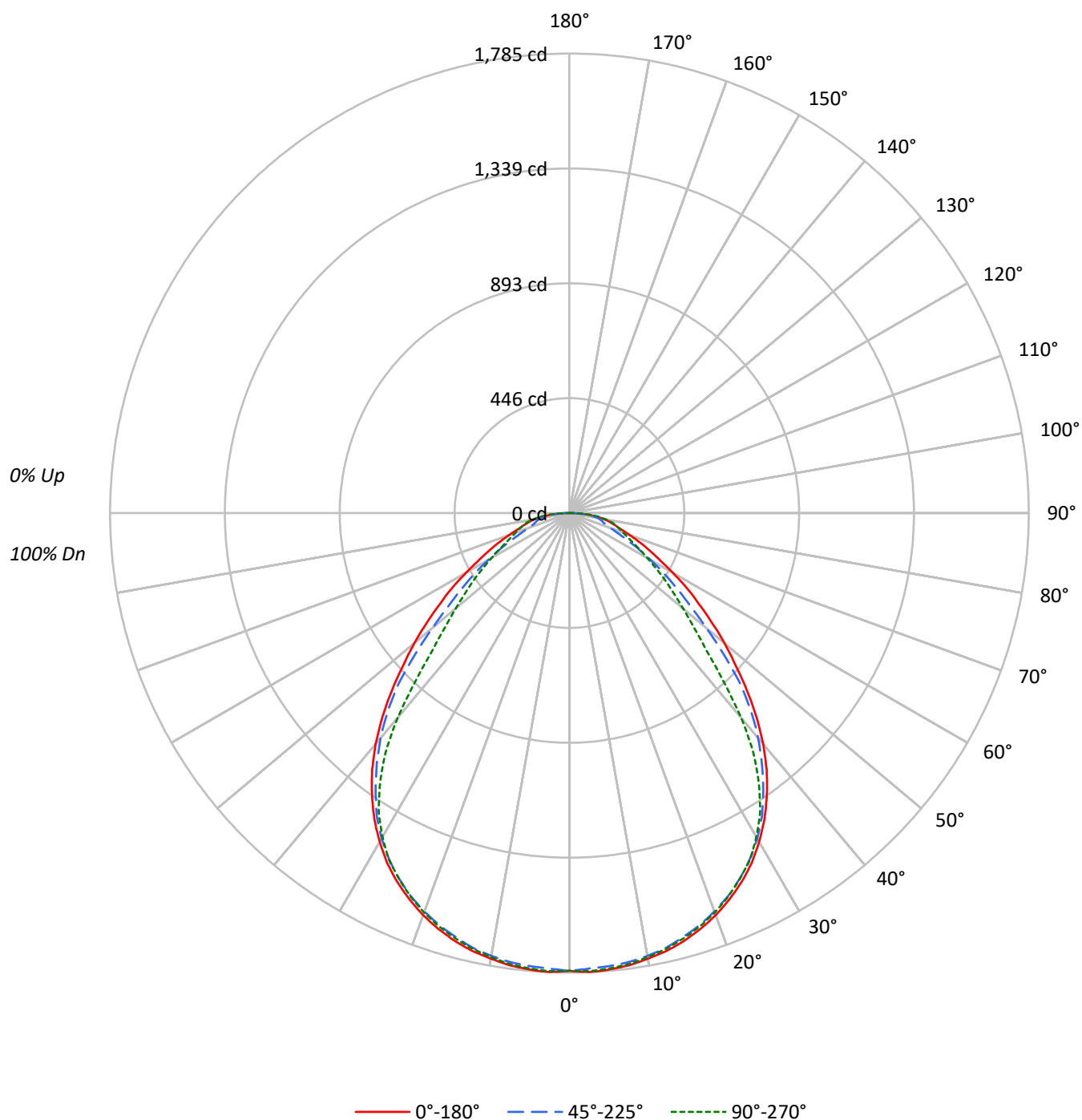
Input Watts (W): 34.596
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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	83	99	92	86	82		88	84	80		85	81	78		82	79	76
3	93	84	76	71	91	82	75	70		79	74	69		77	72	68		74	70	66
4	86	75	67	61	84	74	67	61		72	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	57	48	43	67	56	48	43		54	47	42		53	47	42		52	46	42
8	65	52	44	38	63	51	44	38		50	43	38		49	43	38		48	42	38
9	61	48	40	35	59	47	40	35		46	39	35		45	39	35		44	39	34
10	57	44	37	32	56	44	37	32		43	36	32		42	36	32		41	36	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4786	4786	4786
5°	4809	4772	4797
10°	4803	4773	4786
15°	4794	4751	4766
20°	4760	4716	4729
25°	4697	4651	4654
30°	4582	4535	4515
35°	4394	4314	4217
40°	4113	4009	3648
45°	3715	3575	2851
50°	3294	2902	2411
55°	2875	2381	2127
60°	2493	1960	1877
65°	2187	1573	1733
70°	1950	1334	1744
75°	1903	1406	1949
80°	2109	1774	2235
85°	2198	1893	2615



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.7	4.3
10°-20°	483.4	12.5
20°-30°	723.1	18.6
30°-40°	816.3	21.0
40°-50°	692.5	17.8
50°-60°	468.5	12.1
60°-70°	279.7	7.2
70°-80°	175.1	4.5
80°-90°	73.7	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°	1375.2	35.4
0°-40°	2191.5	56.5
0°-60°	3352.5	86.4
0°-90°	3881.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3881.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1778	1778	1778	1778	1778	
5°	1780	1775	1767	1779	1776	169
15°	1721	1717	1705	1717	1711	485
25°	1582	1576	1567	1574	1568	727
35°	1338	1329	1313	1302	1284	833
45°	976	980	939	805	749	752
55°	613	584	508	454	453	552
65°	343	285	247	263	272	343
75°	183	163	135	178	188	197
85°	71	68	61	79	85	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1778.4	1778.4	1778.4	1778.4	1778.4
2.5°	1784.8	1779.3	1771.2	1782.1	1781.2
5°	1780.2	1774.8	1766.7	1779.3	1775.7
7.5°	1772.1	1767.6	1759.5	1771.2	1767.6
10°	1757.7	1754.1	1746.9	1756.8	1751.4
12.5°	1742.4	1739.7	1730.7	1739.7	1734.3
15°	1720.8	1717.2	1705.4	1717.2	1710.8
17.5°	1693.7	1689.2	1679.3	1689.2	1683.8
20°	1662.2	1656.8	1646.8	1656.8	1651.3
22.5°	1624.3	1619.8	1610.8	1619.8	1612.6
25°	1581.9	1576.5	1566.6	1573.8	1567.5
27.5°	1533.3	1526.1	1517.0	1522.5	1518.8
30°	1474.7	1465.7	1459.4	1459.4	1453.0
32.5°	1410.7	1404.4	1393.6	1387.2	1379.1
35°	1337.7	1328.7	1313.3	1301.6	1283.6
37.5°	1259.2	1248.4	1229.5	1199.8	1175.4
40°	1170.9	1157.4	1141.2	1082.6	1038.4
42.5°	1076.3	1073.6	1045.6	945.6	884.3
45°	976.2	979.8	939.3	804.9	749.1
47.5°	875.3	887.9	814.0	682.4	653.5
50°	786.9	791.4	693.2	592.2	576.0
52.5°	695.9	688.7	591.3	521.0	509.3
55°	612.9	584.1	507.5	454.3	453.4
57.5°	539.9	486.8	433.6	393.9	398.4
60°	463.3	403.8	364.2	342.5	348.8
62.5°	395.7	338.9	303.8	297.5	308.3
65°	343.4	284.8	247.0	263.2	272.2
67.5°	293.9	244.3	201.0	239.8	243.4
70°	247.9	211.8	169.5	220.8	221.7
72.5°	210.0	187.5	146.9	200.1	202.8
75°	183.0	163.2	135.2	178.5	187.5
77.5°	160.4	139.7	125.3	154.1	169.5
80°	136.1	112.7	114.5	128.9	144.2
82.5°	104.6	87.4	91.0	106.4	117.2
85°	71.2	67.6	61.3	79.3	84.7
87.5°	37.9	36.1	31.5	45.1	42.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)