

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: P291076

Luminaire Tested: **14GR-LD5-40-A-UNV-L93050-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291076
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-L93050-W2A1-U-5000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3861.0 lumens
Efficiency: N/A
Efficacy: 110.1 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

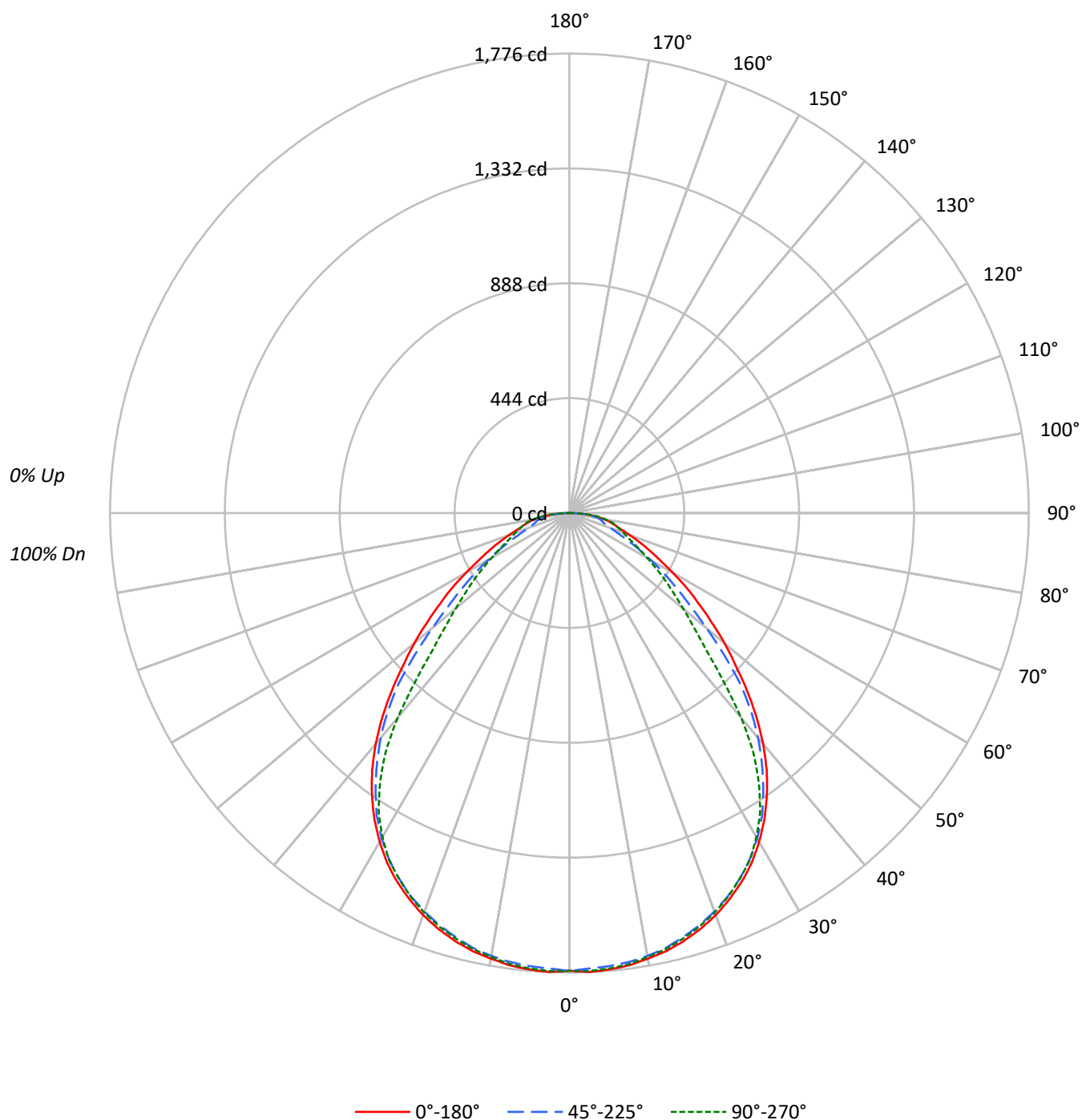
Input Watts (W): 35.061
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4761	4761	4761
5°	4784	4748	4772
10°	4778	4749	4761
15°	4769	4727	4742
20°	4735	4692	4704
25°	4673	4627	4630
30°	4559	4511	4492
35°	4372	4292	4195
40°	4092	3988	3629
45°	3696	3556	2836
50°	3278	2887	2399
55°	2861	2369	2116
60°	2481	1950	1868
65°	2176	1564	1724
70°	1940	1327	1736
75°	1892	1398	1939
80°	2098	1765	2224
85°	2186	1883	2603



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.9	4.3
10°-20°	480.9	12.5
20°-30°	719.4	18.6
30°-40°	812.1	21.0
40°-50°	688.9	17.8
50°-60°	466.1	12.1
60°-70°	278.2	7.2
70°-80°	174.2	4.5
80°-90°	73.3	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°	1368.1	35.4
0°-40°	2180.2	56.5
0°-60°	3335.2	86.4
0°-90°	3861.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3861.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1769	1769	1769	1769	1769	
5°	1771	1766	1758	1770	1767	168
15°	1712	1708	1697	1708	1702	483
25°	1574	1568	1558	1566	1559	724
35°	1331	1322	1307	1295	1277	829
45°	971	975	934	801	745	748
55°	610	581	505	452	451	549
65°	342	283	246	262	271	341
75°	182	162	134	178	186	196
85°	71	67	61	79	84	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1769.3	1769.3	1769.3	1769.3	1769.3
2.5°	1775.6	1770.2	1762.1	1772.9	1772.0
5°	1771.1	1765.7	1757.6	1770.2	1766.6
7.5°	1763.0	1758.5	1750.4	1762.1	1758.5
10°	1748.7	1745.1	1737.9	1747.8	1742.4
12.5°	1733.4	1730.7	1721.8	1730.7	1725.3
15°	1711.9	1708.3	1696.6	1708.3	1702.0
17.5°	1685.0	1680.5	1670.6	1680.5	1675.1
20°	1653.6	1648.2	1638.4	1648.2	1642.8
22.5°	1615.9	1611.5	1602.5	1611.5	1604.3
25°	1573.8	1568.4	1558.5	1565.7	1559.4
27.5°	1525.4	1518.2	1509.2	1514.6	1511.0
30°	1467.1	1458.1	1451.8	1451.8	1445.6
32.5°	1403.4	1397.1	1386.4	1380.1	1372.0
35°	1330.8	1321.8	1306.6	1294.9	1277.0
37.5°	1252.8	1242.0	1223.2	1193.6	1169.4
40°	1164.9	1151.4	1135.3	1077.0	1033.1
42.5°	1070.7	1068.0	1040.2	940.7	879.7
45°	971.2	974.8	934.4	800.8	745.2
47.5°	870.7	883.3	809.8	678.8	650.1
50°	782.9	787.3	689.6	589.2	573.0
52.5°	692.3	685.1	588.3	518.3	506.7
55°	609.8	581.1	504.9	452.0	451.1
57.5°	537.2	484.2	431.3	391.9	396.4
60°	460.9	401.7	362.3	340.8	347.0
62.5°	393.7	337.2	302.2	295.9	306.7
65°	341.7	283.4	245.7	261.9	270.8
67.5°	292.3	243.0	200.0	238.5	242.1
70°	246.6	210.7	168.6	219.7	220.6
72.5°	208.9	186.5	146.2	199.1	201.8
75°	182.0	162.3	134.5	177.6	186.5
77.5°	159.6	139.0	124.6	153.3	168.6
80°	135.4	112.1	113.9	128.2	143.5
82.5°	104.0	87.0	90.6	105.8	116.6
85°	70.8	67.3	61.0	78.9	84.3
87.5°	37.7	35.9	31.4	44.8	42.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)