

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: P290743

Luminaire Tested: **14GR-LD5-40-F1-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290743
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-7)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-40-F1-UNV-L92765-W2A1-U-6500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3882.0 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.15 / 1.23
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

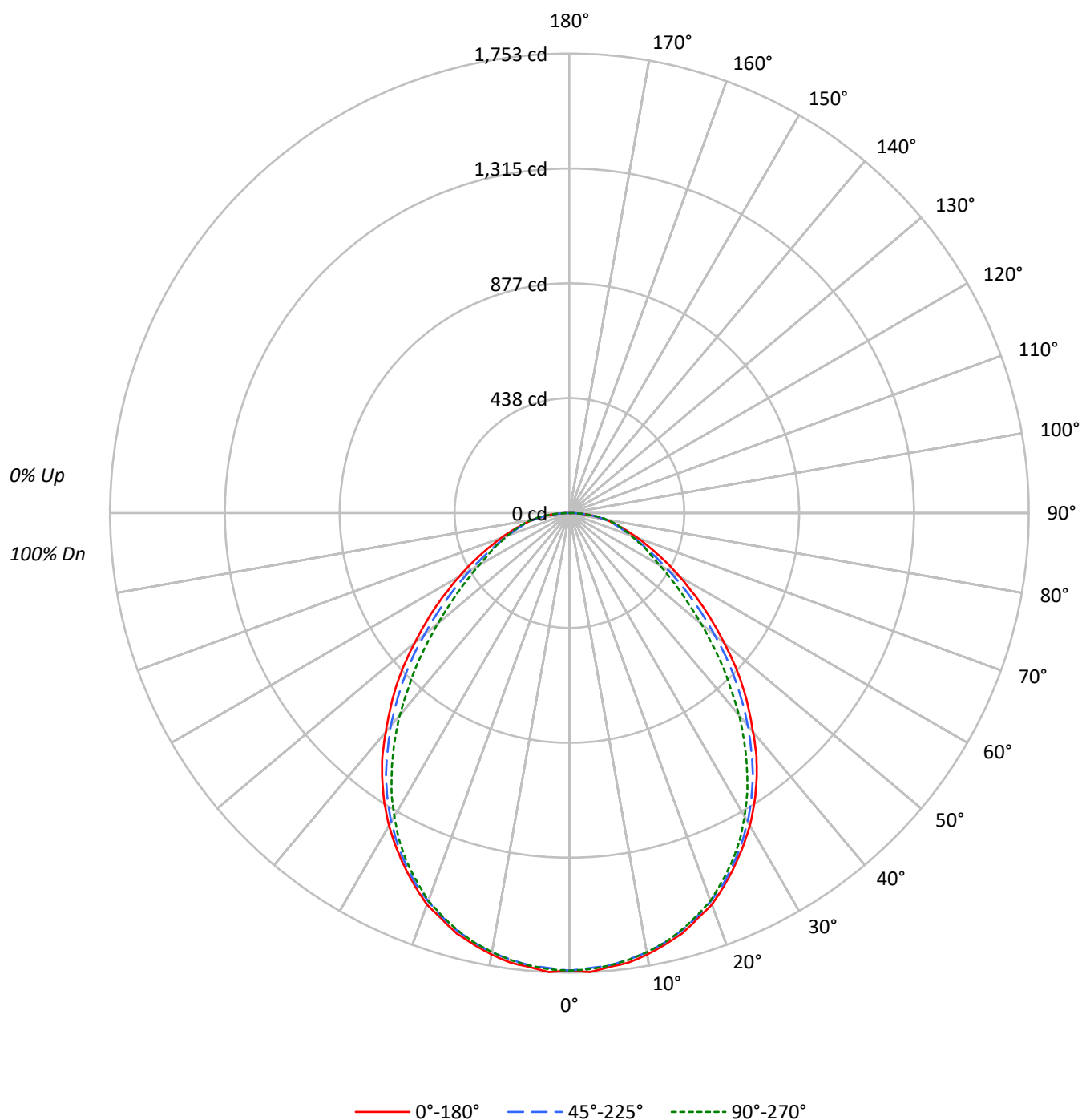
Input Watts (W): 35.247
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P290743

CATALOG NUMBER: 14GR-LD5-40-F1-UNV-L92765-W2A1-U-6500K

Luminous Intensity Polar Plot





TEST NUMBER: P290743

CATALOG NUMBER: 14GR-LD5-40-F1-UNV-L92765-W2A1-U-6500K

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	105	101	98	107	103	99	96		99	96	93		95	92	90		91	89	87
2	101	93	87	81	98	91	85	80		88	83	78		84	80	77		81	78	75
3	92	83	75	69	90	81	74	68		78	72	67		75	70	66		73	69	65
4	85	74	66	59	83	73	65	59		70	64	58		68	62	57		66	61	57
5	79	67	58	52	77	66	58	52		64	57	51		62	55	51		60	54	50
6	73	61	52	46	71	60	52	46		58	51	45		56	50	45		55	49	45
7	68	55	47	41	66	54	47	41		53	46	41		52	45	40		50	44	40
8	64	51	43	37	62	50	42	37		49	42	37		47	41	36		46	41	36
9	60	47	39	34	58	46	39	33		45	38	33		44	38	33		43	37	33
10	56	43	36	31	55	43	35	31		42	35	30		41	35	30		40	34	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4698	4698	4698
5°	4697	4680	4682
10°	4673	4651	4649
15°	4626	4598	4591
20°	4551	4513	4508
25°	4420	4391	4359
30°	4277	4225	4153
35°	4090	4010	3879
40°	3829	3723	3538
45°	3556	3397	3149
50°	3226	3025	2742
55°	2918	2672	2396
60°	2619	2342	2136
65°	2351	2090	2045
70°	2170	1947	1967
75°	2072	1953	2063
80°	2097	2083	2247
85°	2171	2143	2390



TEST NUMBER: P290743

CATALOG NUMBER: 14GR-LD5-40-F1-UNV-L92765-W2A1-U-6500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.8	4.2
10°-20°	465.9	12.0
20°-30°	680.4	17.5
30°-40°	758.2	19.5
40°-50°	683.2	17.6
50°-60°	510.7	13.2
60°-70°	336.9	8.7
70°-80°	205.6	5.3
80°-90°	76.3	2.0
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°	1311.2	33.8
0°-40°	2069.4	53.3
0°-60°	3263.2	84.1
0°-90°	3882.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3882.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1746	1746	1746	1746	1746	
5°	1739	1737	1732	1741	1733	165
15°	1660	1654	1651	1660	1648	467
25°	1489	1483	1479	1482	1468	685
35°	1245	1234	1221	1200	1181	776
45°	934	924	892	852	828	719
55°	622	612	570	522	511	557
65°	369	358	328	315	321	370
75°	199	196	188	194	198	213
85°	70	68	69	76	77	75
90°	0	0	0	0	0	



TEST NUMBER: P290743

CATALOG NUMBER: 14GR-LD5-40-F1-UNV-L92765-W2A1-U-6500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1745.8	1745.8	1745.8	1745.8	1745.8
2.5°	1753.0	1744.9	1737.8	1748.5	1742.3
5°	1738.7	1736.9	1732.5	1741.4	1733.4
7.5°	1729.8	1723.6	1718.2	1728.9	1720.0
10°	1710.2	1706.7	1702.2	1711.1	1701.3
12.5°	1686.2	1682.7	1678.2	1688.9	1678.2
15°	1660.4	1654.2	1650.6	1660.4	1648.0
17.5°	1623.0	1620.4	1615.0	1624.8	1612.4
20°	1589.2	1579.4	1575.9	1583.0	1574.1
22.5°	1540.3	1533.2	1532.3	1536.7	1521.6
25°	1488.7	1483.3	1478.9	1481.6	1468.2
27.5°	1434.4	1427.3	1421.9	1421.0	1406.8
30°	1376.6	1367.7	1359.7	1352.5	1336.5
32.5°	1313.4	1302.7	1292.0	1280.5	1263.5
35°	1244.9	1234.2	1220.8	1199.5	1180.8
37.5°	1172.8	1160.3	1139.0	1114.1	1095.4
40°	1090.0	1083.8	1059.8	1027.7	1007.3
42.5°	1012.6	1005.5	975.2	939.7	912.1
45°	934.3	924.5	892.5	851.6	827.5
47.5°	854.2	844.4	808.8	758.1	736.8
50°	770.6	765.2	722.5	676.3	654.9
52.5°	694.1	687.8	644.2	598.0	578.4
55°	622.0	612.2	569.5	522.3	510.8
57.5°	549.9	539.2	499.2	459.1	451.1
60°	486.7	473.4	435.1	404.0	396.9
62.5°	427.1	412.0	380.0	355.9	352.4
65°	369.3	357.7	328.3	315.0	321.2
67.5°	319.4	307.9	286.5	281.2	279.4
70°	275.8	265.2	247.4	249.2	250.0
72.5°	235.8	229.6	216.2	220.7	224.2
75°	199.3	195.8	187.8	194.0	198.4
77.5°	166.4	163.7	160.2	165.5	172.6
80°	135.3	133.5	134.4	137.9	145.0
82.5°	104.1	100.6	103.2	110.3	114.8
85°	70.3	67.6	69.4	76.5	77.4
87.5°	32.9	32.9	32.0	37.4	37.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)