

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: P290746

Luminaire Tested: **14GR-LD5-43-F1-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290746
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-LD5-43-F1-UNV-L92765-W2A1-U-3500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3733.0 lumens
Efficiency: N/A
Efficacy: 101.9 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

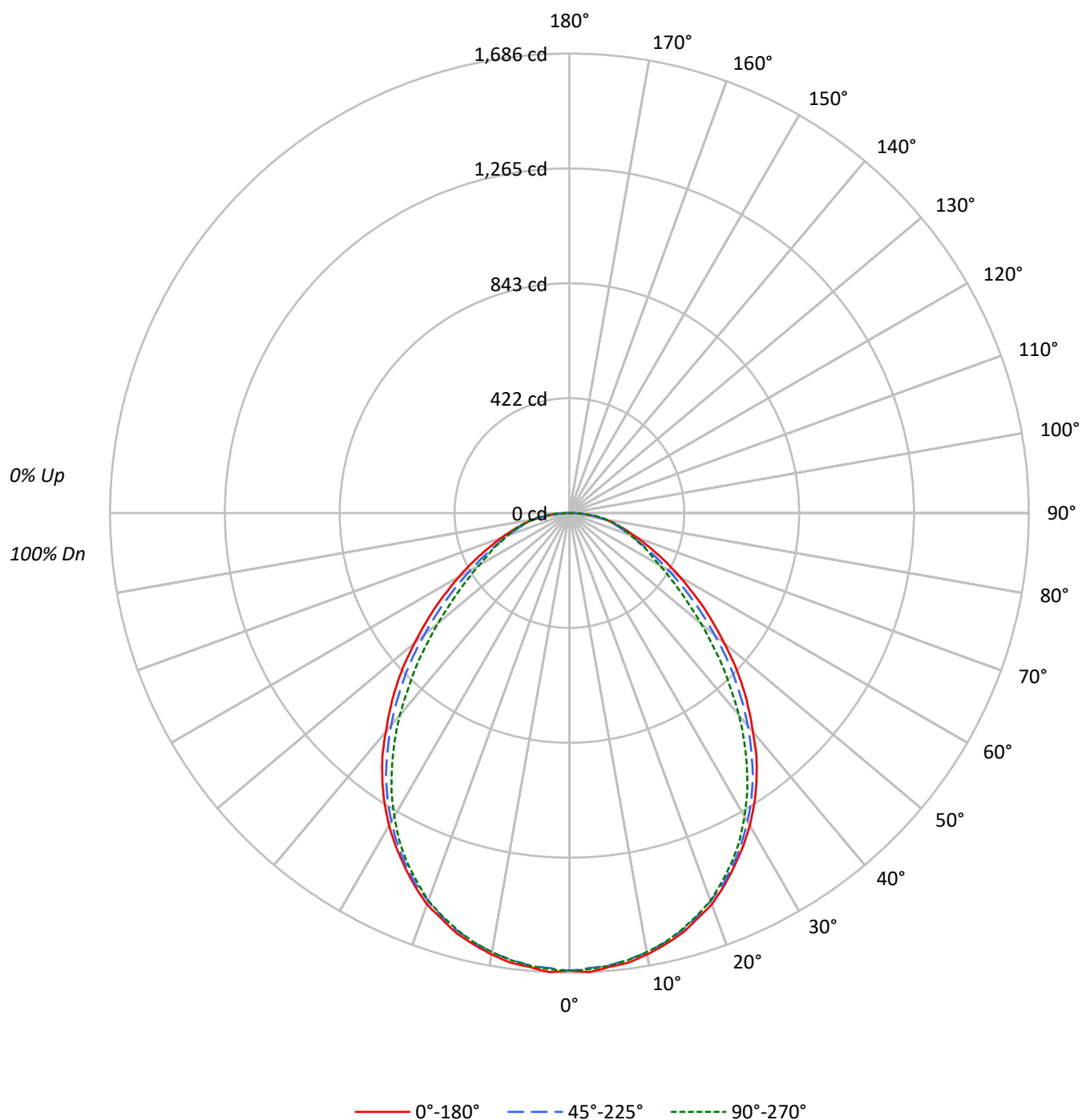
Input Watts (W): 36.642
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P290746

CATALOG NUMBER: 14GR-LD5-43-F1-UNV-L92765-W2A1-U-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P290746

CATALOG NUMBER: 14GR-LD5-43-F1-UNV-L92765-W2A1-U-3500K

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°	4518	4518	4518
5°	4517	4500	4502
10°	4494	4473	4470
15°	4448	4422	4415
20°	4376	4340	4335
25°	4250	4222	4192
30°	4113	4063	3993
35°	3933	3857	3730
40°	3682	3580	3403
45°	3419	3266	3029
50°	3102	2909	2637
55°	2806	2569	2305
60°	2519	2252	2054
65°	2261	2010	1967
70°	2087	1872	1891
75°	1993	1877	1984
80°	2016	2002	2162
85°	2087	2059	2297



TEST NUMBER: P290746

CATALOG NUMBER: 14GR-LD5-43-F1-UNV-L92765-W2A1-U-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.5	4.2
10°-20°	448.1	12.0
20°-30°	654.3	17.5
30°-40°	729.1	19.5
40°-50°	656.9	17.6
50°-60°	491.1	13.2
60°-70°	323.9	8.7
70°-80°	197.7	5.3
80°-90°	73.4	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°	1260.9	33.8
0°-40°	1990.0	53.3
0°-60°	3138.0	84.1
0°-90°	3733.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3733.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1679	1679	1679	1679	1679	
5°	1672	1670	1666	1674	1667	159
15°	1597	1591	1587	1597	1585	449
25°	1432	1426	1422	1425	1412	659
35°	1197	1187	1174	1153	1136	746
45°	898	889	858	819	796	692
55°	598	589	548	502	491	536
65°	355	344	316	303	309	356
75°	192	188	180	186	191	205
85°	68	65	67	74	74	72
90°	0	0	0	0	0	



TEST NUMBER: P290746

CATALOG NUMBER: 14GR-LD5-43-F1-UNV-L92765-W2A1-U-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1678.8	1678.8	1678.8	1678.8	1678.8
2.5°	1685.7	1678.0	1671.1	1681.4	1675.4
5°	1672.0	1670.3	1666.0	1674.5	1666.8
7.5°	1663.4	1657.4	1652.3	1662.6	1654.0
10°	1644.6	1641.2	1636.9	1645.5	1636.0
12.5°	1621.5	1618.1	1613.8	1624.1	1613.8
15°	1596.7	1590.7	1587.3	1596.7	1584.7
17.5°	1560.7	1558.2	1553.0	1562.5	1550.5
20°	1528.2	1518.8	1515.4	1522.2	1513.7
22.5°	1481.2	1474.3	1473.5	1477.7	1463.2
25°	1431.5	1426.4	1422.1	1424.7	1411.9
27.5°	1379.3	1372.5	1367.4	1366.5	1352.8
30°	1323.7	1315.2	1307.5	1300.6	1285.2
32.5°	1263.0	1252.7	1242.4	1231.3	1215.1
35°	1197.1	1186.8	1174.0	1153.4	1135.5
37.5°	1127.8	1115.8	1095.3	1071.3	1053.3
40°	1048.2	1042.2	1019.1	988.3	968.6
42.5°	973.8	966.9	937.8	903.6	877.1
45°	898.5	889.0	858.2	818.9	795.8
47.5°	821.4	812.0	777.8	729.0	708.5
50°	741.0	735.9	694.8	650.3	629.8
52.5°	667.4	661.4	619.5	575.0	556.2
55°	598.1	588.7	547.6	502.3	491.2
57.5°	528.8	518.5	480.0	441.5	433.8
60°	468.1	455.2	418.4	388.5	381.6
62.5°	410.7	396.2	365.4	342.3	338.8
65°	355.1	344.0	315.7	302.9	308.9
67.5°	307.2	296.1	275.5	270.4	268.7
70°	265.3	255.0	237.9	239.6	240.4
72.5°	226.8	220.8	207.9	212.2	215.6
75°	191.7	188.2	180.5	186.5	190.8
77.5°	160.0	157.4	154.0	159.2	166.0
80°	130.1	128.4	129.2	132.6	139.5
82.5°	100.1	96.7	99.3	106.1	110.4
85°	67.6	65.0	66.7	73.6	74.4
87.5°	31.7	31.7	30.8	35.9	35.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)