

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: P290609

Luminaire Tested: **14GR-LD5-24-F1-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290609
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-LD5-24-F1-UNV-L82765-W2A1-U-6500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2522.0 lumens
Efficiency: N/A
Efficacy: 132.3 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

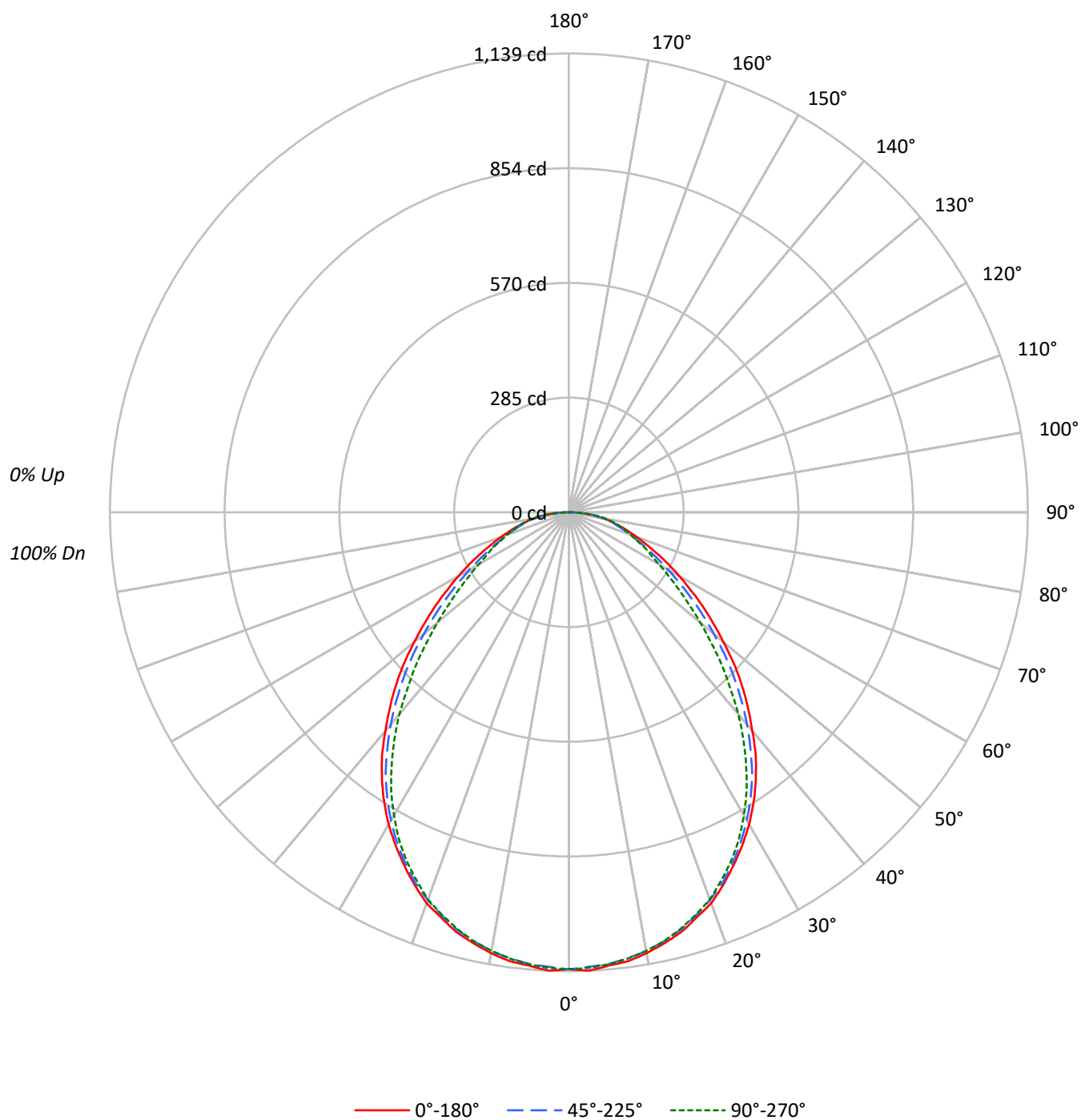
Input Watts (W): 19.065
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P290609

CATALOG NUMBER: 14GR-LD5-24-F1-UNV-L82765-W2A1-U-6500K

Luminous Intensity Polar Plot





TEST NUMBER: P290609

CATALOG NUMBER: 14GR-LD5-24-F1-UNV-L82765-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			0
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			100
1	110	105	101	98	107	103	99	96		99	96	93			95	92	90			85
2	101	93	87	81	98	91	85	80		88	83	78			84	80	77			73
3	92	83	75	69	90	81	74	68		78	72	67			75	70	66			63
4	85	74	66	59	83	73	65	59		70	64	58			68	62	57			55
5	79	67	58	52	77	66	58	52		64	57	51			62	55	51			48
6	73	61	52	46	71	60	52	46		58	51	45			56	50	45			43
7	68	55	47	41	66	54	47	41		53	46	41			52	45	40			38
8	64	51	43	37	62	50	42	37		49	42	37			47	41	36			34
9	60	47	39	34	58	46	39	33		45	38	33			44	38	33			31
10	56	43	36	31	55	43	35	31		42	35	30			41	35	30			29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3052	3052	3052
5°	3051	3040	3042
10°	3036	3022	3020
15°	3005	2988	2983
20°	2957	2932	2928
25°	2871	2853	2832
30°	2779	2745	2698
35°	2657	2605	2520
40°	2488	2419	2299
45°	2310	2206	2046
50°	2096	1965	1781
55°	1896	1736	1557
60°	1702	1521	1387
65°	1528	1358	1329
70°	1410	1264	1278
75°	1346	1268	1340
80°	1362	1353	1460
85°	1411	1392	1553



TEST NUMBER: P290609

CATALOG NUMBER: 14GR-LD5-24-F1-UNV-L82765-W2A1-U-6500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.1	4.2
10°-20°	302.7	12.0
20°-30°	442.1	17.5
30°-40°	492.6	19.5
40°-50°	443.8	17.6
50°-60°	331.8	13.2
60°-70°	218.8	8.7
70°-80°	133.6	5.3
80°-90°	49.6	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°	851.8	33.8
0°-40°	1344.4	53.3
0°-60°	2120.0	84.1
0°-90°	2522.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2522.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1134	1134	1134	1134	1134	
5°	1130	1128	1126	1131	1126	107
15°	1079	1075	1072	1079	1071	304
25°	967	964	961	962	954	445
35°	809	802	793	779	767	504
45°	607	601	580	553	538	467
55°	404	398	370	339	332	362
65°	240	232	213	205	209	240
75°	130	127	122	126	129	138
85°	46	44	45	50	50	49
90°	0	0	0	0	0	



TEST NUMBER: P290609

CATALOG NUMBER: 14GR-LD5-24-F1-UNV-L82765-W2A1-U-6500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1134.2	1134.2	1134.2	1134.2	1134.2
2.5°	1138.8	1133.6	1129.0	1135.9	1131.9
5°	1129.6	1128.4	1125.5	1131.3	1126.1
7.5°	1123.8	1119.8	1116.3	1123.2	1117.4
10°	1111.1	1108.8	1105.9	1111.7	1105.3
12.5°	1095.5	1093.2	1090.3	1097.2	1090.3
15°	1078.7	1074.7	1072.4	1078.7	1070.6
17.5°	1054.4	1052.7	1049.2	1055.6	1047.5
20°	1032.5	1026.1	1023.8	1028.4	1022.6
22.5°	1000.7	996.0	995.5	998.4	988.5
25°	967.1	963.7	960.8	962.5	953.8
27.5°	931.9	927.3	923.8	923.2	914.0
30°	894.3	888.5	883.3	878.7	868.3
32.5°	853.3	846.3	839.4	831.9	820.9
35°	808.7	801.8	793.1	779.3	767.1
37.5°	761.9	753.8	740.0	723.8	711.6
40°	708.2	704.1	688.5	667.7	654.4
42.5°	657.9	653.2	633.6	610.5	592.5
45°	607.0	600.6	579.8	553.2	537.6
47.5°	555.0	548.6	525.5	492.5	478.7
50°	500.6	497.2	469.4	439.3	425.5
52.5°	450.9	446.9	418.5	388.5	375.8
55°	404.1	397.7	370.0	339.3	331.8
57.5°	357.3	350.3	324.3	298.3	293.1
60°	316.2	307.5	282.7	262.5	257.8
62.5°	277.5	267.7	246.8	231.2	228.9
65°	239.9	232.4	213.3	204.6	208.7
67.5°	207.5	200.0	186.1	182.7	181.5
70°	179.2	172.3	160.7	161.9	162.4
72.5°	153.2	149.1	140.5	143.4	145.7
75°	129.5	127.2	122.0	126.0	128.9
77.5°	108.1	106.4	104.1	107.5	112.1
80°	87.9	86.7	87.3	89.6	94.2
82.5°	67.6	65.3	67.1	71.7	74.6
85°	45.7	43.9	45.1	49.7	50.3
87.5°	21.4	21.4	20.8	24.3	24.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)