

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: P290606

Luminaire Tested: **14GR-LD5-24-F1-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290606
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-5000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2485.0 lumens
Efficiency: N/A
Efficacy: 132.9 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

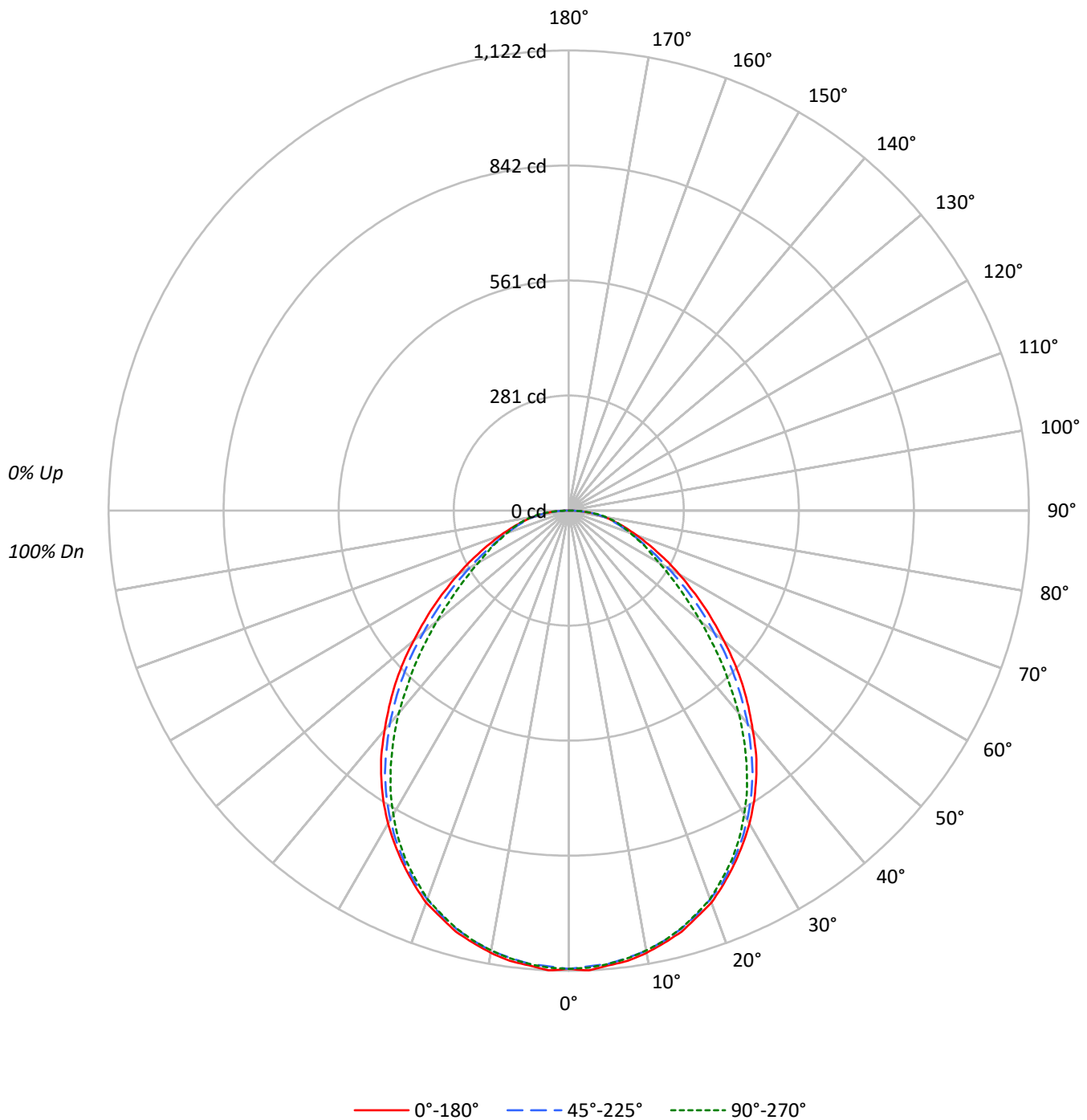
Input Watts (W): 18.693
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P290606

CATALOG NUMBER: 14GR-LD5-24-F1-UNV-L82765-W2A1-U-5000K

Luminous Intensity Polar Plot





TEST NUMBER: P290606

CATALOG NUMBER: 14GR-LD5-24-F1-UNV-L82765-W2A1-U-5000K

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°	3007	3007	3007
5°	3007	2996	2997
10°	2992	2978	2976
15°	2961	2944	2939
20°	2913	2889	2885
25°	2830	2811	2791
30°	2738	2705	2658
35°	2618	2567	2483
40°	2451	2383	2265
45°	2276	2174	2016
50°	2065	1936	1755
55°	1868	1710	1534
60°	1677	1499	1367
65°	1505	1338	1309
70°	1389	1246	1260
75°	1327	1250	1320
80°	1342	1333	1438
85°	1389	1371	1531



TEST NUMBER: P290606

CATALOG NUMBER: 14GR-LD5-24-F1-UNV-L82765-W2A1-U-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.5	4.2
10°-20°	298.3	12.0
20°-30°	435.6	17.5
30°-40°	485.4	19.5
40°-50°	437.3	17.6
50°-60°	326.9	13.2
60°-70°	215.6	8.7
70°-80°	131.6	5.3
80°-90°	48.8	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°	839.3	33.8
0°-40°	1324.7	53.3
0°-60°	2088.9	84.1
0°-90°	2485.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2485.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1118	1118	1118	1118	1118	
5°	1113	1112	1109	1115	1110	106
15°	1063	1059	1057	1063	1055	299
25°	953	950	947	948	940	439
35°	797	790	782	768	756	497
45°	598	592	571	545	530	460
55°	398	392	364	334	327	357
65°	236	229	210	202	206	237
75°	128	125	120	124	127	136
85°	45	43	44	49	50	48
90°	0	0	0	0	0	



TEST NUMBER: P290606

CATALOG NUMBER: 14GR-LD5-24-F1-UNV-L82765-W2A1-U-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1117.6	1117.6	1117.6	1117.6	1117.6
2.5°	1122.1	1117.0	1112.4	1119.3	1115.3
5°	1113.0	1111.9	1109.0	1114.7	1109.6
7.5°	1107.3	1103.3	1099.9	1106.7	1101.0
10°	1094.8	1092.5	1089.7	1095.4	1089.1
12.5°	1079.4	1077.1	1074.3	1081.1	1074.3
15°	1062.9	1058.9	1056.6	1062.9	1054.9
17.5°	1039.0	1037.3	1033.8	1040.1	1032.1
20°	1017.3	1011.1	1008.8	1013.3	1007.6
22.5°	986.0	981.4	980.9	983.7	974.0
25°	953.0	949.5	946.7	948.4	939.9
27.5°	918.2	913.6	910.2	909.7	900.5
30°	881.2	875.5	870.4	865.8	855.5
32.5°	840.7	833.9	827.1	819.7	808.8
35°	796.9	790.0	781.5	767.8	755.9
37.5°	750.7	742.8	729.1	713.1	701.2
40°	697.8	693.8	678.4	657.9	644.8
42.5°	648.2	643.7	624.3	601.5	583.8
45°	598.1	591.8	571.3	545.1	529.7
47.5°	546.8	540.6	517.8	485.3	471.6
50°	493.3	489.9	462.5	432.9	419.2
52.5°	444.3	440.3	412.4	382.8	370.2
55°	398.2	391.9	364.5	334.4	327.0
57.5°	352.0	345.2	319.5	293.9	288.8
60°	311.6	303.0	278.5	258.6	254.0
62.5°	273.4	263.7	243.2	227.8	225.6
65°	236.4	229.0	210.2	201.6	205.6
67.5°	204.5	197.1	183.4	180.0	178.9
70°	176.6	169.7	158.4	159.5	160.1
72.5°	150.9	147.0	138.4	141.3	143.5
75°	127.6	125.3	120.2	124.2	127.0
77.5°	106.5	104.8	102.5	105.9	110.5
80°	86.6	85.4	86.0	88.3	92.8
82.5°	66.6	64.4	66.1	70.6	73.5
85°	45.0	43.3	44.4	49.0	49.6
87.5°	21.1	21.1	20.5	23.9	23.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)