

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: P290607

Luminaire Tested: **14GR-LD5-24-F1-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290607
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-5500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2509.0 lumens
Efficiency: N/A
Efficacy: 133.6 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

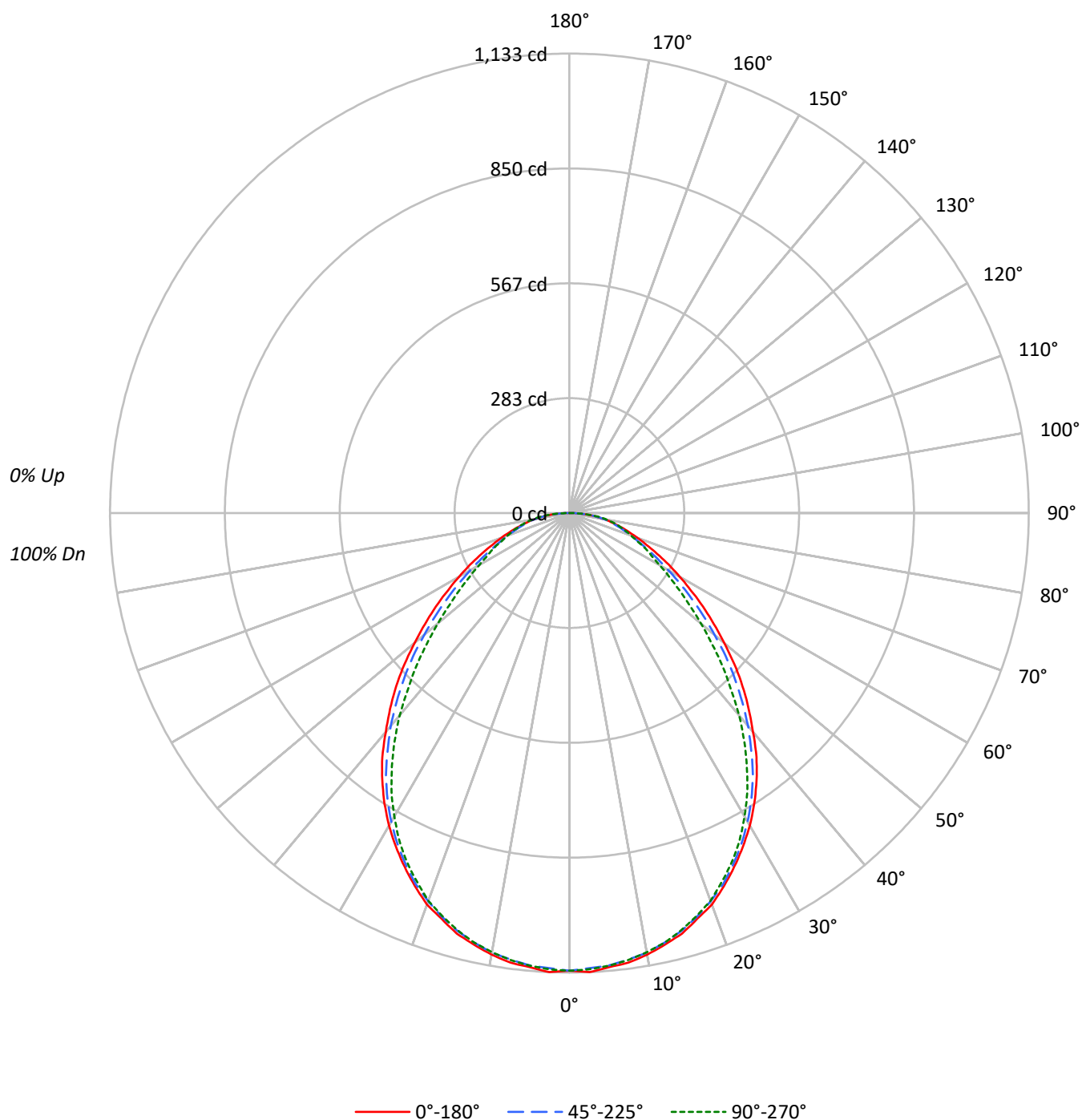
Input Watts (W): 18.786
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P290607

CATALOG NUMBER: 14GR-LD5-24-F1-UNV-L82765-W2A1-U-5500K

Luminous Intensity Polar Plot





TEST NUMBER: P290607

CATALOG NUMBER: 14GR-LD5-24-F1-UNV-L82765-W2A1-U-5500K

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°	3037	3037	3037
5°	3036	3025	3026
10°	3020	3006	3005
15°	2990	2972	2967
20°	2941	2917	2914
25°	2857	2838	2817
30°	2765	2731	2684
35°	2643	2592	2507
40°	2475	2406	2287
45°	2298	2195	2035
50°	2085	1955	1772
55°	1886	1727	1549
60°	1693	1513	1380
65°	1520	1351	1322
70°	1403	1258	1271
75°	1339	1261	1333
80°	1354	1345	1452
85°	1402	1386	1544



TEST NUMBER: P290607

CATALOG NUMBER: 14GR-LD5-24-F1-UNV-L82765-W2A1-U-5500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.5	4.2
10°-20°	301.1	12.0
20°-30°	439.8	17.5
30°-40°	490.0	19.5
40°-50°	441.5	17.6
50°-60°	330.1	13.2
60°-70°	217.7	8.7
70°-80°	132.9	5.3
80°-90°	49.3	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°	847.4	33.8
0°-40°	1337.5	53.3
0°-60°	2109.1	84.1
0°-90°	2509.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2509.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1128	1128	1128	1128	1128	
5°	1124	1123	1120	1126	1120	107
15°	1073	1069	1067	1073	1065	302
25°	962	959	956	958	949	443
35°	805	798	789	775	763	502
45°	604	598	577	550	535	465
55°	402	396	368	338	330	360
65°	239	231	212	204	208	239
75°	129	126	121	125	128	138
85°	45	44	45	50	50	48
90°	0	0	0	0	0	



TEST NUMBER: P290607

CATALOG NUMBER: 14GR-LD5-24-F1-UNV-L82765-W2A1-U-5500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1128.4	1128.4	1128.4	1128.4	1128.4
2.5°	1133.0	1127.8	1123.2	1130.1	1126.1
5°	1123.8	1122.6	1119.7	1125.5	1120.3
7.5°	1118.0	1114.0	1110.5	1117.4	1111.7
10°	1105.4	1103.1	1100.2	1105.9	1099.6
12.5°	1089.8	1087.5	1084.7	1091.6	1084.7
15°	1073.2	1069.1	1066.8	1073.2	1065.1
17.5°	1049.0	1047.3	1043.8	1050.1	1042.1
20°	1027.1	1020.8	1018.5	1023.1	1017.4
22.5°	995.5	990.9	990.3	993.2	983.4
25°	962.2	958.7	955.8	957.6	948.9
27.5°	927.1	922.5	919.0	918.4	909.2
30°	889.7	883.9	878.8	874.2	863.8
32.5°	848.9	842.0	835.1	827.6	816.7
35°	804.6	797.7	789.0	775.2	763.2
37.5°	758.0	749.9	736.1	720.0	708.0
40°	704.5	700.5	685.0	664.2	651.0
42.5°	654.5	649.9	630.3	607.3	589.5
45°	603.9	597.5	576.8	550.4	534.8
47.5°	552.1	545.8	522.8	490.0	476.2
50°	498.0	494.6	467.0	437.1	423.3
52.5°	448.6	444.6	416.4	386.5	373.8
55°	402.0	395.7	368.1	337.6	330.1
57.5°	355.4	348.5	322.6	296.8	291.6
60°	314.6	306.0	281.2	261.1	256.5
62.5°	276.1	266.3	245.6	230.0	227.7
65°	238.7	231.2	212.2	203.6	207.6
67.5°	206.5	199.0	185.2	181.7	180.6
70°	178.3	171.4	159.9	161.0	161.6
72.5°	152.4	148.4	139.8	142.6	144.9
75°	128.8	126.5	121.3	125.4	128.2
77.5°	107.5	105.8	103.5	107.0	111.6
80°	87.4	86.3	86.8	89.1	93.7
82.5°	67.3	65.0	66.7	71.3	74.2
85°	45.4	43.7	44.9	49.5	50.0
87.5°	21.3	21.3	20.7	24.2	24.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)