

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: P290719

Luminaire Tested: **14GR-LD5-32-F1-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290719
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-LD5-32-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: 2798.0 lumens
Efficiency: N/A
Efficacy: 108.6 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

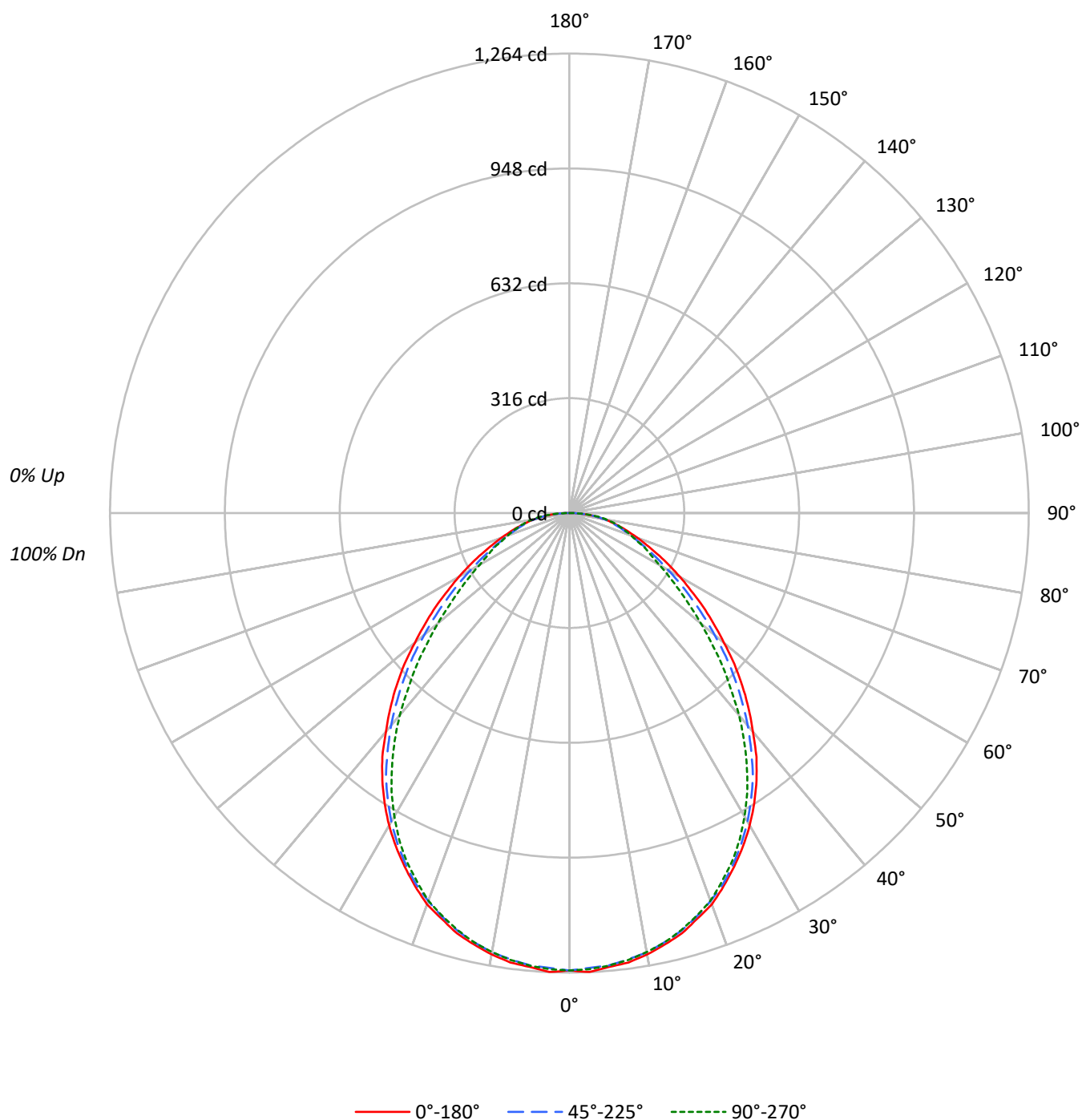
Input Watts (W): 25.761
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P290719

CATALOG NUMBER: 14GR-LD5-32-F1-UNV-L92765-W2A1-U-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P290719

CATALOG NUMBER: 14GR-LD5-32-F1-UNV-L92765-W2A1-U-3500K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	105	101	98	107	103	99	96	99	96	93		95	92	90		91
2	101	93	87	81	98	91	85	80	88	83	78		84	80	77		81
3	92	83	75	69	90	81	74	68	78	72	67		75	70	66		73
4	85	74	66	59	83	73	65	59	70	64	58		68	62	57		66
5	79	67	58	52	77	66	58	52	64	57	51		62	55	51		60
6	73	61	52	46	71	60	52	46	58	51	45		56	50	45		55
7	68	55	47	41	66	54	47	41	53	46	41		52	45	40		50
8	64	51	43	37	62	50	42	37	49	42	37		47	41	36		46
9	60	47	39	34	58	46	39	33	45	38	33		44	38	33		43
10	56	43	36	31	55	43	35	31	42	35	30		41	35	30		40

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3386	3386	3386
5°	3385	3373	3375
10°	3368	3352	3351
15°	3334	3314	3309
20°	3280	3253	3249
25°	3186	3165	3142
30°	3083	3045	2993
35°	2948	2891	2796
40°	2760	2683	2550
45°	2563	2448	2270
50°	2325	2180	1976
55°	2103	1926	1727
60°	1888	1688	1539
65°	1695	1507	1474
70°	1564	1403	1418
75°	1494	1407	1487
80°	1511	1500	1619
85°	1565	1544	1723



TEST NUMBER: P290719

CATALOG NUMBER: 14GR-LD5-32-F1-UNV-L92765-W2A1-U-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.8	4.2
10°-20°	335.8	12.0
20°-30°	490.4	17.5
30°-40°	546.5	19.5
40°-50°	492.4	17.6
50°-60°	368.1	13.2
60°-70°	242.8	8.7
70°-80°	148.2	5.3
80°-90°	55.0	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°	945.1	33.8
0°-40°	1491.5	53.3
0°-60°	2352.0	84.1
0°-90°	2798.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2798.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1258	1258	1258	1258	1258	
5°	1253	1252	1249	1255	1249	119
15°	1197	1192	1190	1197	1188	337
25°	1073	1069	1066	1068	1058	494
35°	897	890	880	864	851	559
45°	673	666	643	614	596	518
55°	448	441	410	376	368	402
65°	266	258	237	227	232	267
75°	144	141	135	140	143	153
85°	51	49	50	55	56	54
90°	0	0	0	0	0	



TEST NUMBER: P290719

CATALOG NUMBER: 14GR-LD5-32-F1-UNV-L92765-W2A1-U-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1258.3	1258.3	1258.3	1258.3	1258.3
2.5°	1263.5	1257.7	1252.6	1260.3	1255.8
5°	1253.2	1251.9	1248.7	1255.1	1249.4
7.5°	1246.8	1242.3	1238.4	1246.1	1239.7
10°	1232.7	1230.1	1226.9	1233.3	1226.3
12.5°	1215.4	1212.8	1209.6	1217.3	1209.6
15°	1196.8	1192.3	1189.7	1196.8	1187.8
17.5°	1169.8	1167.9	1164.1	1171.1	1162.1
20°	1145.5	1138.4	1135.8	1141.0	1134.6
22.5°	1110.2	1105.0	1104.4	1107.6	1096.7
25°	1073.0	1069.1	1065.9	1067.8	1058.2
27.5°	1033.9	1028.7	1024.9	1024.2	1014.0
30°	992.2	985.8	980.0	974.9	963.3
32.5°	946.6	938.9	931.2	922.9	910.7
35°	897.3	889.6	879.9	864.5	851.1
37.5°	845.3	836.3	820.9	803.0	789.5
40°	785.7	781.2	763.8	740.8	726.0
42.5°	729.9	724.7	702.9	677.3	657.4
45°	673.4	666.4	643.3	613.8	596.5
47.5°	615.7	608.6	583.0	546.4	531.0
50°	555.4	551.6	520.8	487.4	472.0
52.5°	500.3	495.8	464.3	431.0	416.9
55°	448.3	441.2	410.5	376.5	368.1
57.5°	396.4	388.7	359.8	330.9	325.2
60°	350.8	341.2	313.6	291.2	286.0
62.5°	307.8	296.9	273.9	256.5	254.0
65°	266.2	257.8	236.7	227.0	231.5
67.5°	230.2	221.9	206.5	202.7	201.4
70°	198.8	191.1	178.3	179.6	180.2
72.5°	170.0	165.5	155.8	159.1	161.6
75°	143.7	141.1	135.3	139.8	143.0
77.5°	119.9	118.0	115.4	119.3	124.4
80°	97.5	96.2	96.8	99.4	104.5
82.5°	75.0	72.5	74.4	79.5	82.7
85°	50.7	48.7	50.0	55.2	55.8
87.5°	23.7	23.7	23.1	26.9	26.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)