

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: P291703

Luminaire Tested: **14GR-LD5-32-FGW080-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291703
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-24)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-32-FGW080-UNV-L92765-W2A1-U-5500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2347.0 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

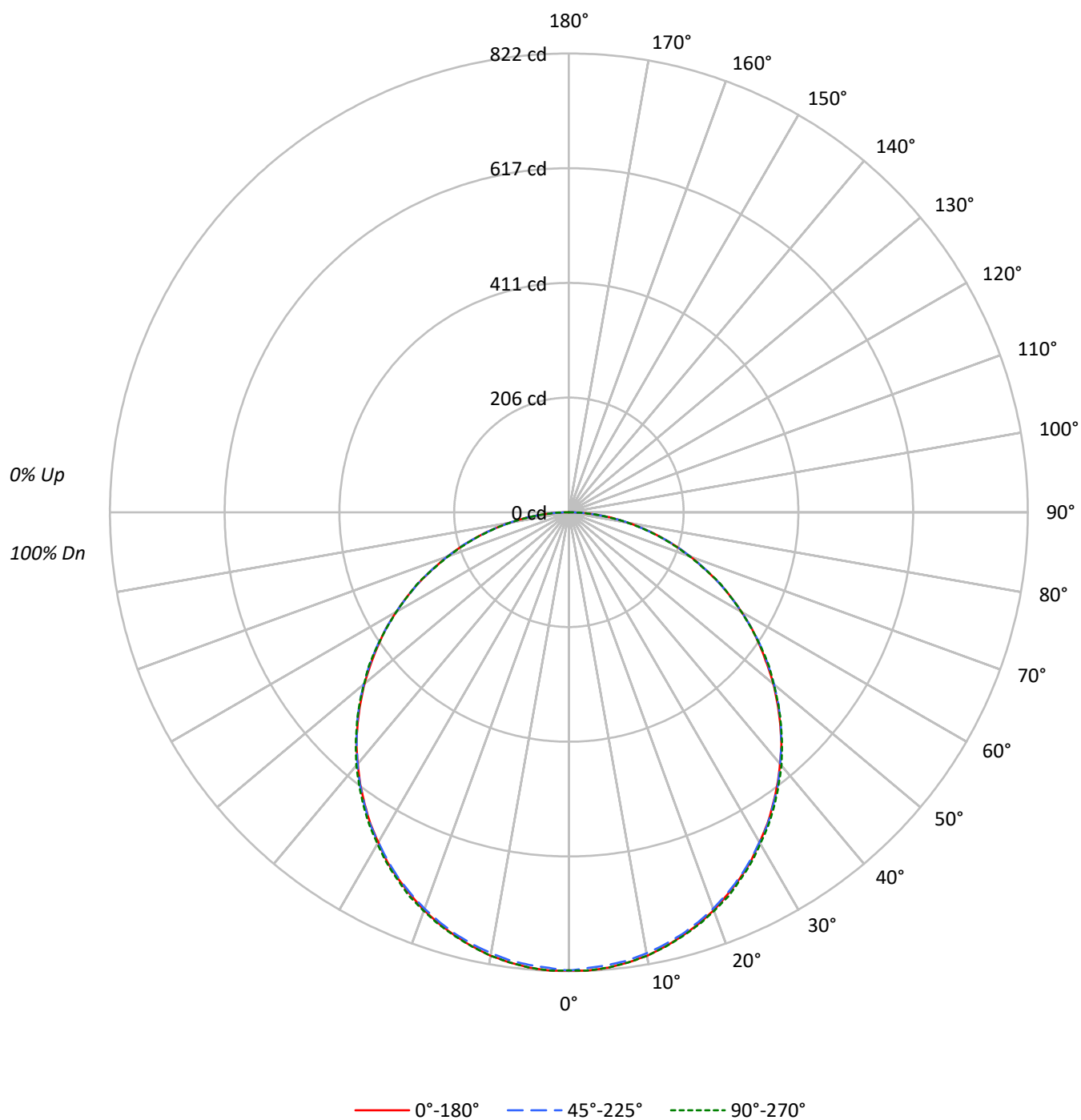
Input Watts (W): 26.412
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P291703

CATALOG NUMBER: 14GR-LD5-32-FGW080-UNV-L92765-W2A1-U-5500K

Luminous Intensity Polar Plot





TEST NUMBER: P291703

CATALOG NUMBER: 14GR-LD5-32-FGW080-UNV-L92765-W2A1-U-5500K

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	108	103	99	95	106	101	97	93	97	94	91		93	90	88		89
2	98	90	83	77	96	88	82	76	84	79	74		81	77	73		78
3	90	79	71	64	87	77	70	63	74	68	62		71	66	61		69
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		61
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		55
6	70	56	47	40	68	55	47	40	53	46	40		52	45	40		50
7	64	51	42	36	63	50	42	36	48	41	35		47	40	35		46
8	60	46	38	32	58	46	37	32	44	37	32		43	36	31		42
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		39
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2209	2209	2209
5°	2211	2199	2211
10°	2204	2191	2204
15°	2188	2180	2191
20°	2172	2164	2176
25°	2150	2145	2157
30°	2121	2121	2131
35°	2095	2098	2107
40°	2066	2069	2080
45°	2036	2041	2044
50°	2001	2007	2004
55°	1961	1971	1968
60°	1922	1922	1922
65°	1878	1878	1887
70°	1818	1818	1800
75°	1755	1748	1739
80°	1674	1663	1650
85°	1575	1553	1507



TEST NUMBER: P291703

CATALOG NUMBER: 14GR-LD5-32-FGW080-UNV-L92765-W2A1-U-5500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.6	3.3
10°-20°	221.5	9.4
20°-30°	333.8	14.2
30°-40°	400.0	17.0
40°-50°	413.7	17.6
50°-60°	375.1	16.0
60°-70°	291.5	12.4
70°-80°	178.0	7.6
80°-90°	55.7	2.4
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°	633.0	27.0
0°-40°	1033.0	44.0
0°-60°	1821.7	77.6
0°-90°	2347.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2347.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	821	821	821	821	821	
5°	818	818	814	818	818	78
15°	786	786	782	786	786	222
25°	724	724	722	727	726	334
35°	638	638	638	642	642	399
45°	535	536	536	537	537	413
55°	418	419	420	420	419	374
65°	295	295	295	293	296	291
75°	169	169	168	167	167	178
85°	51	50	50	49	49	56
90°	0	0	0	0	0	



TEST NUMBER: P291703

CATALOG NUMBER: 14GR-LD5-32-FGW080-UNV-L92765-W2A1-U-5500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	820.8	820.8	820.8	820.8	820.8
2.5°	821.5	820.8	817.0	820.8	821.5
5°	818.5	817.8	814.0	817.8	818.5
7.5°	813.3	813.3	809.5	813.3	813.3
10°	806.5	805.8	802.0	805.8	806.5
12.5°	796.8	796.8	793.0	796.8	797.5
15°	785.5	785.5	782.5	786.3	786.3
17.5°	772.8	773.5	769.8	774.3	774.3
20°	758.5	757.8	755.5	759.3	760.0
22.5°	741.3	742.0	739.8	744.3	745.0
25°	724.0	724.0	722.5	727.0	726.3
27.5°	705.3	705.3	703.0	706.8	707.5
30°	682.7	683.5	682.7	686.5	685.7
32.5°	661.7	662.5	662.5	664.0	664.7
35°	637.7	638.5	638.5	641.5	641.5
37.5°	613.7	613.7	614.5	616.7	616.7
40°	588.2	589.0	589.0	591.2	592.0
42.5°	563.5	562.0	562.7	565.0	565.0
45°	534.9	535.7	536.4	537.2	537.2
47.5°	506.4	507.9	508.7	509.4	508.7
50°	477.9	479.4	479.4	478.7	478.7
52.5°	447.2	450.9	450.2	450.2	451.7
55°	417.9	419.4	420.1	420.1	419.4
57.5°	388.6	390.1	388.6	389.4	387.9
60°	357.1	357.9	357.1	357.1	357.1
62.5°	326.4	327.1	325.6	325.6	325.6
65°	294.9	294.9	294.9	293.4	296.4
67.5°	261.8	263.3	263.3	264.1	261.1
70°	231.1	231.8	231.1	230.3	228.8
72.5°	200.3	201.1	201.8	198.8	198.1
75°	168.8	168.8	168.1	167.3	167.3
77.5°	138.0	138.0	138.0	136.5	136.5
80°	108.0	108.8	107.3	107.3	106.5
82.5°	78.8	78.8	78.8	78.0	76.5
85°	51.0	49.5	50.3	48.8	48.8
87.5°	23.3	23.3	23.3	21.8	24.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)