

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: P291689

Luminaire Tested: **14GR-LD5-28-FGW080-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291689
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-LD5-28-FGW080-UNV-L92765-W2A1-U-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1795.0 lumens
Efficiency: N/A
Efficacy: 81.4 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

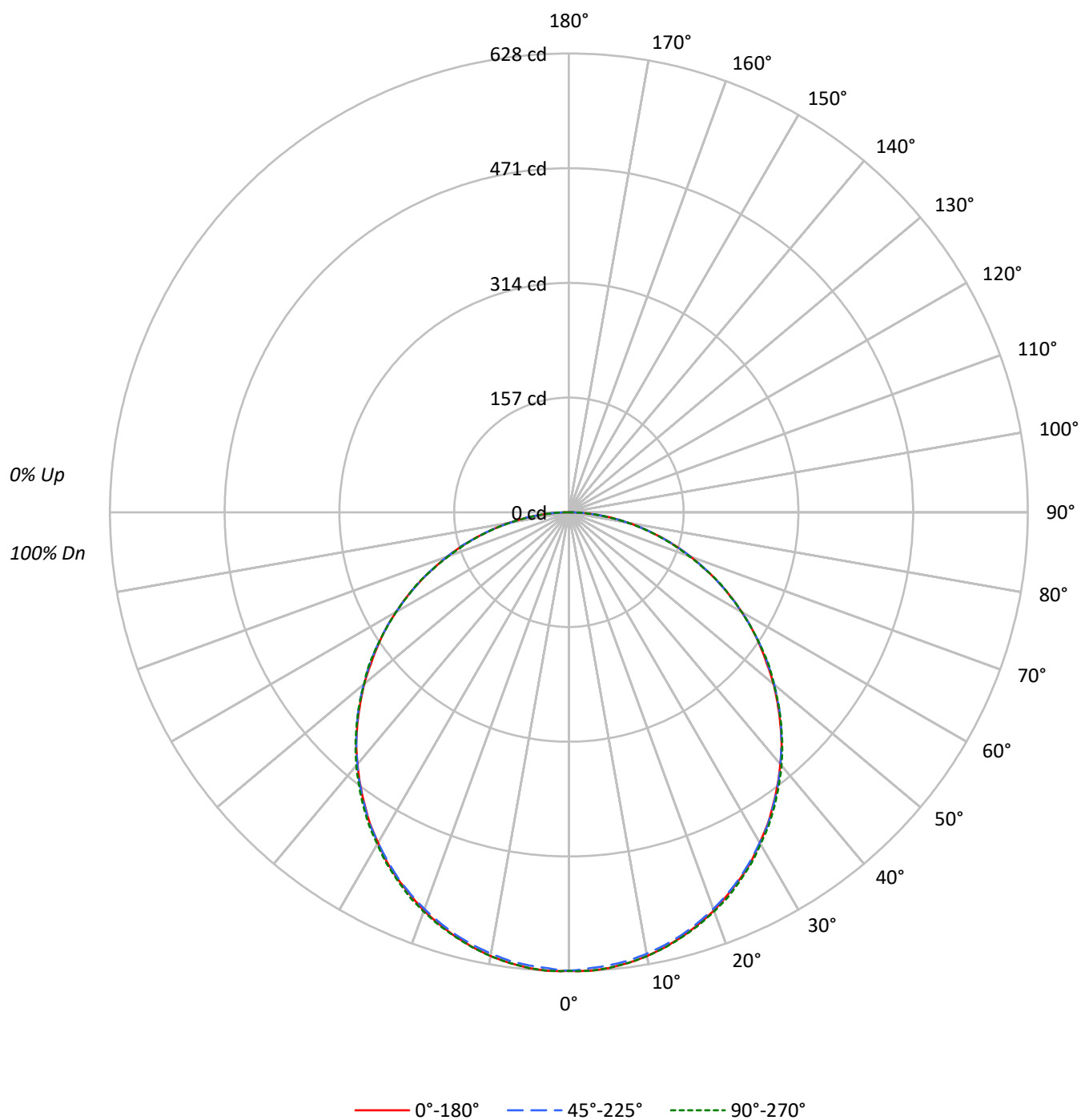
Input Watts (W): 22.041
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P291689

CATALOG NUMBER: 14GR-LD5-28-FGW080-UNV-L92765-W2A1-U-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P291689

CATALOG NUMBER: 14GR-LD5-28-FGW080-UNV-L92765-W2A1-U-3000K

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	108	103	99	95	106	101	97	93		97	94	91		93	90	88		89	87	85
2	98	90	83	77	96	88	82	76		84	79	74		81	77	73		78	74	71
3	90	79	71	64	87	77	70	63		74	68	62		71	66	61		69	64	60
4	82	70	61	54	80	68	60	54		66	59	53		64	57	52		61	56	51
5	75	62	53	46	73	61	53	46		59	51	46		57	50	45		55	49	45
6	70	56	47	40	68	55	47	40		53	46	40		52	45	40		50	44	39
7	64	51	42	36	63	50	42	36		48	41	35		47	40	35		46	39	35
8	60	46	38	32	58	46	37	32		44	37	32		43	36	31		42	36	31
9	56	43	34	29	55	42	34	29		41	34	28		40	33	28		39	33	28
10	53	39	31	26	51	39	31	26		38	31	26		37	30	26		36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1689	1689	1689
5°	1691	1682	1691
10°	1685	1676	1685
15°	1674	1667	1675
20°	1661	1655	1665
25°	1644	1641	1649
30°	1623	1623	1630
35°	1602	1604	1612
40°	1580	1582	1590
45°	1557	1561	1563
50°	1530	1535	1533
55°	1499	1507	1505
60°	1470	1470	1470
65°	1436	1436	1443
70°	1390	1390	1377
75°	1342	1336	1331
80°	1280	1272	1263
85°	1204	1186	1152



TEST NUMBER: P291689

CATALOG NUMBER: 14GR-LD5-28-FGW080-UNV-L92765-W2A1-U-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.4	3.3
10°-20°	169.4	9.4
20°-30°	255.3	14.2
30°-40°	306.0	17.0
40°-50°	316.4	17.6
50°-60°	286.9	16.0
60°-70°	222.9	12.4
70°-80°	136.2	7.6
80°-90°	42.6	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°	484.1	27.0
0°-40°	790.0	44.0
0°-60°	1393.3	77.6
0°-90°	1795.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1795.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	628	628	628	628	628	
5°	626	626	623	626	626	59
15°	601	601	598	601	601	170
25°	554	554	553	556	555	255
35°	488	488	488	491	491	305
45°	409	410	410	411	411	316
55°	320	321	321	321	321	286
65°	226	226	226	224	227	223
75°	129	129	128	128	128	137
85°	39	38	38	37	37	43
90°	0	0	0	0	0	



TEST NUMBER: P291689

CATALOG NUMBER: 14GR-LD5-28-FGW080-UNV-L92765-W2A1-U-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	627.7	627.7	627.7	627.7	627.7
2.5°	628.3	627.7	624.9	627.7	628.3
5°	626.0	625.5	622.6	625.5	626.0
7.5°	622.0	622.0	619.1	622.0	622.0
10°	616.8	616.3	613.4	616.3	616.8
12.5°	609.4	609.4	606.5	609.4	610.0
15°	600.8	600.8	598.5	601.4	601.4
17.5°	591.0	591.6	588.7	592.2	592.2
20°	580.1	579.5	577.8	580.7	581.3
22.5°	566.9	567.5	565.8	569.2	569.8
25°	553.7	553.7	552.6	556.0	555.4
27.5°	539.4	539.4	537.7	540.5	541.1
30°	522.2	522.7	522.2	525.0	524.5
32.5°	506.1	506.7	506.7	507.8	508.4
35°	487.7	488.3	488.3	490.6	490.6
37.5°	469.4	469.4	469.9	471.7	471.7
40°	449.9	450.4	450.4	452.2	452.7
42.5°	430.9	429.8	430.4	432.1	432.1
45°	409.1	409.7	410.3	410.8	410.8
47.5°	387.3	388.5	389.0	389.6	389.0
50°	365.5	366.7	366.7	366.1	366.1
52.5°	342.0	344.9	344.3	344.3	345.4
55°	319.6	320.8	321.3	321.3	320.8
57.5°	297.2	298.4	297.2	297.8	296.7
60°	273.1	273.7	273.1	273.1	273.1
62.5°	249.6	250.2	249.0	249.0	249.0
65°	225.5	225.5	225.5	224.4	226.7
67.5°	200.3	201.4	201.4	202.0	199.7
70°	176.7	177.3	176.7	176.2	175.0
72.5°	153.2	153.8	154.4	152.1	151.5
75°	129.1	129.1	128.5	128.0	128.0
77.5°	105.6	105.6	105.6	104.4	104.4
80°	82.6	83.2	82.1	82.1	81.5
82.5°	60.2	60.2	60.2	59.7	58.5
85°	39.0	37.9	38.4	37.3	37.3
87.5°	17.8	17.8	17.8	16.6	18.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)