

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: P291645

Luminaire Tested: **14GR-LD5-28-FGW080-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291645
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-L93050-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: 1714.0 lumens
Efficiency: N/A
Efficacy: 75.5 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

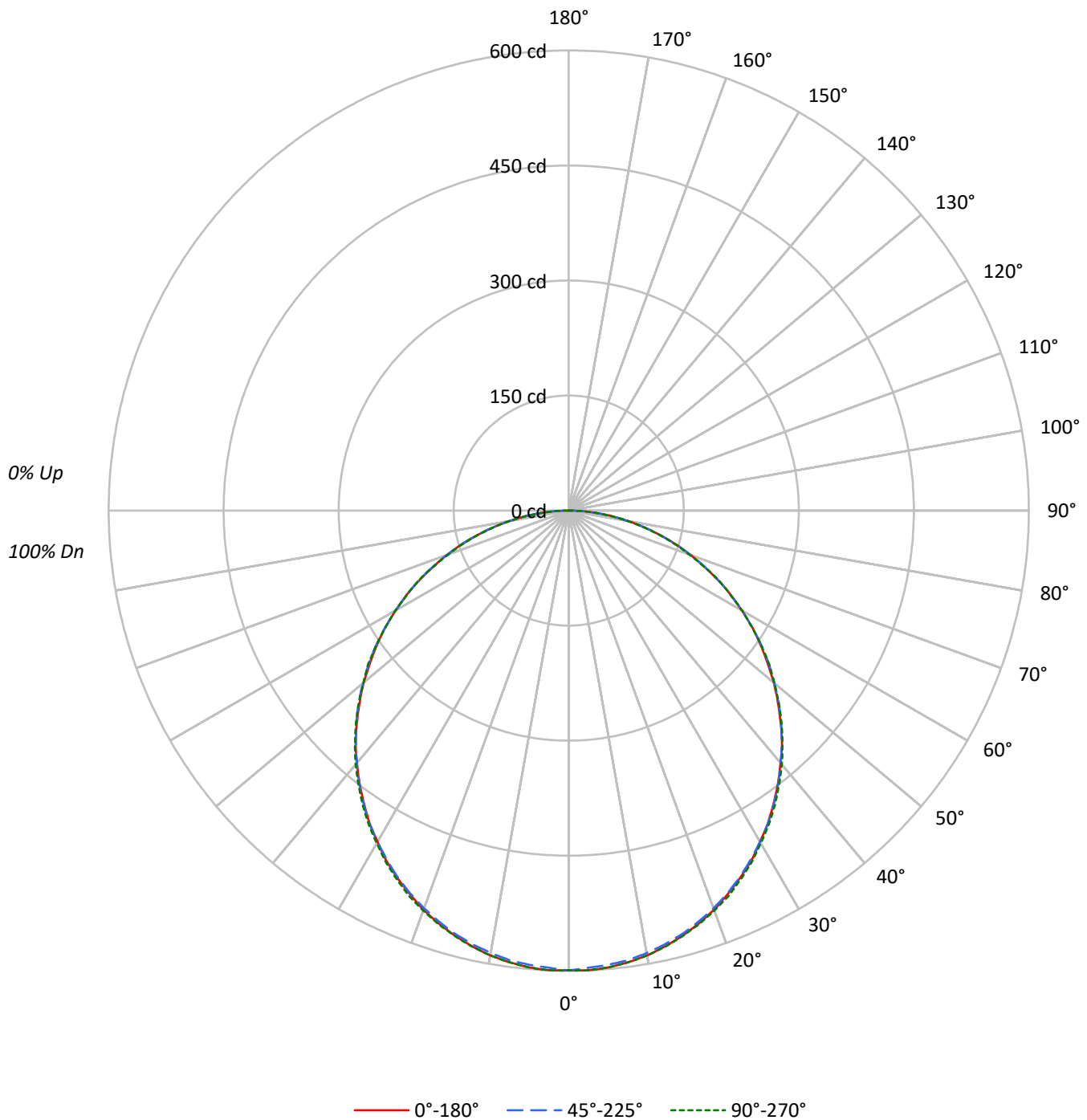
Input Watts (W): 22.692
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P291645

CATALOG NUMBER: 14GR-LD5-28-FGW080-UNV-L93050-W2A1-U-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P291645

CATALOG NUMBER: 14GR-LD5-28-FGW080-UNV-L93050-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°	1613	1613	1613
5°	1615	1606	1615
10°	1609	1600	1609
15°	1598	1592	1600
20°	1586	1580	1589
25°	1570	1567	1575
30°	1549	1549	1556
35°	1530	1532	1539
40°	1509	1511	1519
45°	1487	1491	1493
50°	1461	1466	1464
55°	1432	1439	1437
60°	1404	1404	1404
65°	1371	1371	1378
70°	1328	1328	1315
75°	1282	1276	1271
80°	1223	1215	1206
85°	1152	1133	1099



TEST NUMBER: P291645

CATALOG NUMBER: 14GR-LD5-28-FGW080-UNV-L93050-W2A1-U-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.7	3.3
10°-20°	161.8	9.4
20°-30°	243.8	14.2
30°-40°	292.1	17.0
40°-50°	302.1	17.6
50°-60°	273.9	16.0
60°-70°	212.9	12.4
70°-80°	130.0	7.6
80°-90°	40.7	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°	462.2	27.0
0°-40°	754.4	44.0
0°-60°	1330.4	77.6
0°-90°	1714.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1714.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	599	599	599	599	599	
5°	598	597	594	597	598	57
15°	574	574	572	574	574	162
25°	529	529	528	531	530	244
35°	466	466	466	468	468	291
45°	391	391	392	392	392	301
55°	305	306	307	307	306	273
65°	215	215	215	214	216	213
75°	123	123	123	122	122	130
85°	37	36	37	36	36	41
90°	0	0	0	0	0	



TEST NUMBER: P291645

CATALOG NUMBER: 14GR-LD5-28-FGW080-UNV-L93050-W2A1-U-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	599.4	599.4	599.4	599.4	599.4
2.5°	600.0	599.4	596.7	599.4	600.0
5°	597.8	597.2	594.5	597.2	597.8
7.5°	593.9	593.9	591.2	593.9	593.9
10°	589.0	588.5	585.7	588.5	589.0
12.5°	581.9	581.9	579.1	581.9	582.4
15°	573.7	573.7	571.5	574.2	574.2
17.5°	564.4	564.9	562.2	565.4	565.4
20°	553.9	553.4	551.8	554.5	555.0
22.5°	541.3	541.9	540.2	543.5	544.1
25°	528.7	528.7	527.6	530.9	530.4
27.5°	515.0	515.0	513.4	516.1	516.7
30°	498.6	499.2	498.6	501.3	500.8
32.5°	483.3	483.8	483.8	484.9	485.5
35°	465.7	466.3	466.3	468.5	468.5
37.5°	448.2	448.2	448.7	450.4	450.4
40°	429.6	430.1	430.1	431.8	432.3
42.5°	411.5	410.4	410.9	412.6	412.6
45°	390.7	391.2	391.8	392.3	392.3
47.5°	369.8	370.9	371.5	372.0	371.5
50°	349.0	350.1	350.1	349.6	349.6
52.5°	326.6	329.3	328.7	328.7	329.8
55°	305.2	306.3	306.8	306.8	306.3
57.5°	283.8	284.9	283.8	284.4	283.3
60°	260.8	261.4	260.8	260.8	260.8
62.5°	238.3	238.9	237.8	237.8	237.8
65°	215.3	215.3	215.3	214.2	216.4
67.5°	191.2	192.3	192.3	192.9	190.7
70°	168.8	169.3	168.8	168.2	167.1
72.5°	146.3	146.8	147.4	145.2	144.6
75°	123.3	123.3	122.7	122.2	122.2
77.5°	100.8	100.8	100.8	99.7	99.7
80°	78.9	79.4	78.4	78.4	77.8
82.5°	57.5	57.5	57.5	57.0	55.9
85°	37.3	36.2	36.7	35.6	35.6
87.5°	17.0	17.0	17.0	15.9	18.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)