

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: P291595

Luminaire Tested: **14GR-LD5-28-FGW080-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291595
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-L82765-W2A1-U-5000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2269.0 lumens
Efficiency: N/A
Efficacy: 99.6 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

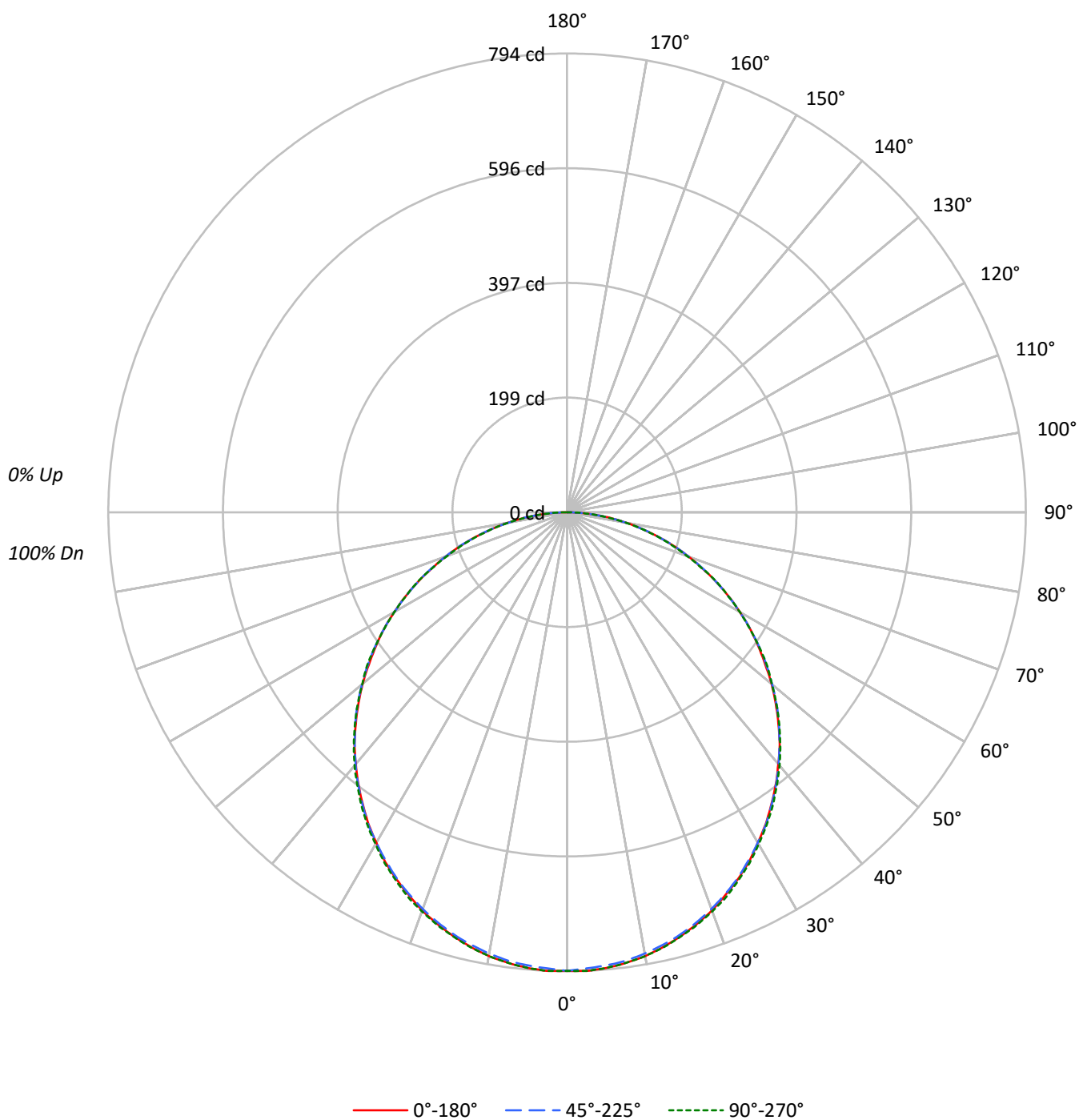
Input Watts (W): 22.785
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P291595

CATALOG NUMBER: 14GR-LD5-28-FGW080-UNV-L82765-W2A1-U-5000K

Luminous Intensity Polar Plot





TEST NUMBER: P291595

CATALOG NUMBER: 14GR-LD5-28-FGW080-UNV-L82765-W2A1-U-5000K

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	30	10	0		
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	108	103	99	95	106	101	97	93	97	94	91	93	90	88	89	87	85	83		
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69		
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58		
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49		
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42		
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37		
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33		
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29		
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26		
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2135	2135	2135
5°	2138	2126	2138
10°	2131	2119	2131
15°	2116	2108	2118
20°	2100	2092	2104
25°	2078	2074	2085
30°	2051	2051	2060
35°	2025	2028	2037
40°	1998	2000	2010
45°	1968	1974	1976
50°	1934	1940	1937
55°	1895	1906	1902
60°	1858	1858	1858
65°	1815	1815	1824
70°	1758	1758	1740
75°	1697	1690	1681
80°	1618	1607	1596
85°	1522	1501	1454



TEST NUMBER: P291595

CATALOG NUMBER: 14GR-LD5-28-FGW080-UNV-L82765-W2A1-U-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.0	3.3
10°-20°	214.1	9.4
20°-30°	322.7	14.2
30°-40°	386.7	17.0
40°-50°	399.9	17.6
50°-60°	362.6	16.0
60°-70°	281.8	12.4
70°-80°	172.1	7.6
80°-90°	53.9	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°	611.9	27.0
0°-40°	998.7	44.0
0°-60°	1761.2	77.6
0°-90°	2269.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2269.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	794	794	794	794	794	
5°	791	791	787	791	791	75
15°	759	759	756	760	760	214
25°	700	700	698	703	702	322
35°	616	617	617	620	620	386
45°	517	518	519	519	519	399
55°	404	406	406	406	406	361
65°	285	285	285	284	286	282
75°	163	163	162	162	162	173
85°	49	48	49	47	47	54
90°	0	0	0	0	0	



TEST NUMBER: P291595

CATALOG NUMBER: 14GR-LD5-28-FGW080-UNV-L82765-W2A1-U-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	793.5	793.5	793.5	793.5	793.5
2.5°	794.2	793.5	789.9	793.5	794.2
5°	791.3	790.6	787.0	790.6	791.3
7.5°	786.3	786.3	782.6	786.3	786.3
10°	779.7	779.0	775.4	779.0	779.7
12.5°	770.3	770.3	766.7	770.3	771.0
15°	759.4	759.4	756.5	760.1	760.1
17.5°	747.1	747.8	744.2	748.5	748.5
20°	733.3	732.6	730.4	734.0	734.8
22.5°	716.6	717.4	715.2	719.5	720.3
25°	699.9	699.9	698.5	702.8	702.1
27.5°	681.8	681.8	679.6	683.3	684.0
30°	660.1	660.8	660.1	663.7	663.0
32.5°	639.7	640.5	640.5	641.9	642.6
35°	616.5	617.3	617.3	620.2	620.2
37.5°	593.3	593.3	594.0	596.2	596.2
40°	568.7	569.4	569.4	571.6	572.3
42.5°	544.7	543.3	544.0	546.2	546.2
45°	517.2	517.9	518.6	519.3	519.3
47.5°	489.6	491.1	491.8	492.5	491.8
50°	462.0	463.5	463.5	462.8	462.8
52.5°	432.3	435.9	435.2	435.2	436.7
55°	404.0	405.5	406.2	406.2	405.5
57.5°	375.7	377.2	375.7	376.4	375.0
60°	345.3	346.0	345.3	345.3	345.3
62.5°	315.5	316.2	314.8	314.8	314.8
65°	285.1	285.1	285.1	283.6	286.5
67.5°	253.1	254.6	254.6	255.3	252.4
70°	223.4	224.1	223.4	222.7	221.2
72.5°	193.7	194.4	195.1	192.2	191.5
75°	163.2	163.2	162.5	161.7	161.7
77.5°	133.5	133.5	133.5	132.0	132.0
80°	104.4	105.2	103.7	103.7	103.0
82.5°	76.2	76.2	76.2	75.4	74.0
85°	49.3	47.9	48.6	47.1	47.1
87.5°	22.5	22.5	22.5	21.0	23.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)