

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: P291693

Luminaire Tested: **14GR-LD5-28-FGW080-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291693
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-5000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2037.0 lumens
Efficiency: N/A
Efficacy: 89.4 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

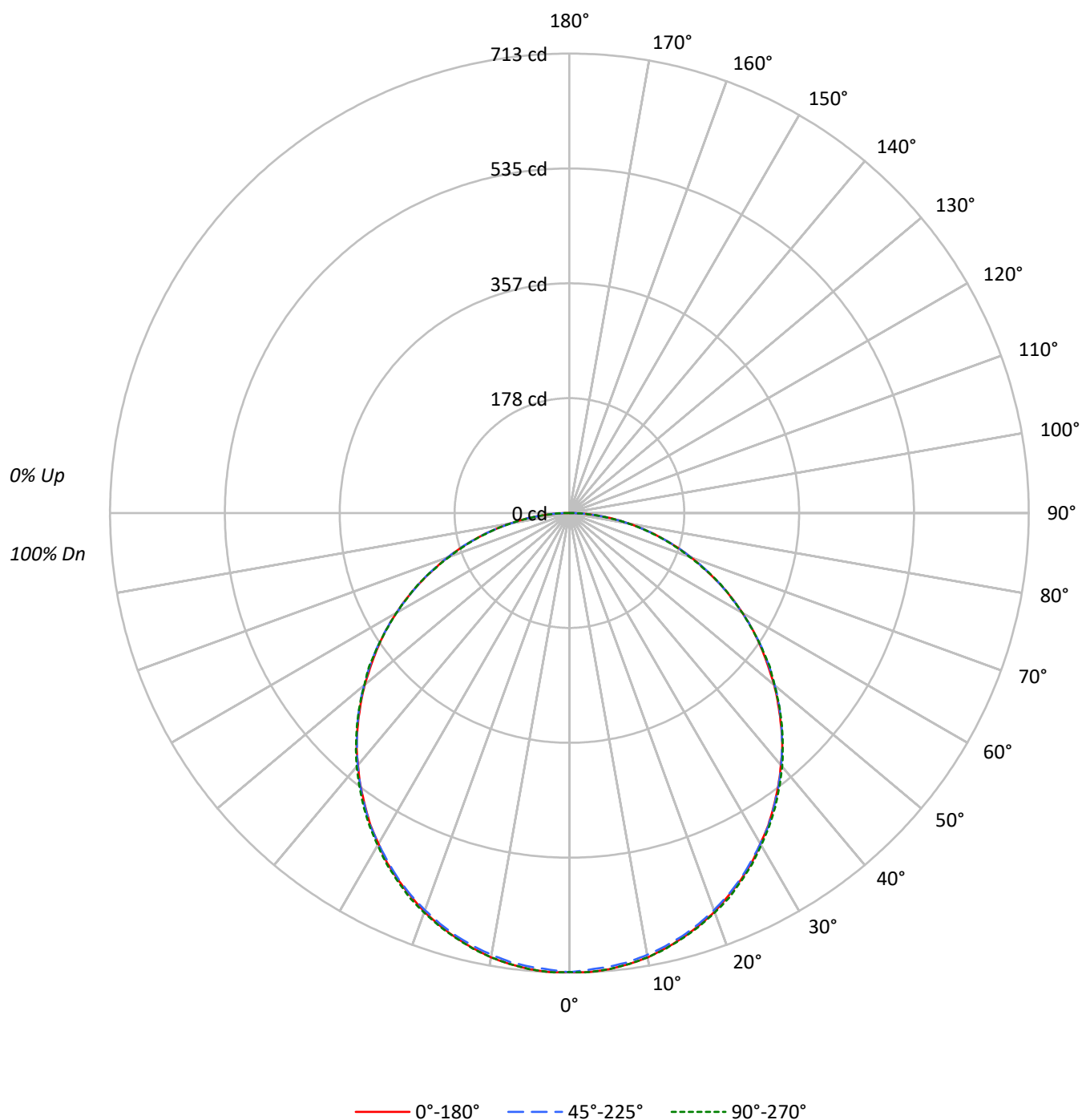
Input Watts (W): 22.785
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P291693

CATALOG NUMBER: 14GR-LD5-28-FGW080-UNV-L92765-W2A1-U-5000K

Luminous Intensity Polar Plot





TEST NUMBER: P291693

CATALOG NUMBER: 14GR-LD5-28-FGW080-UNV-L92765-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
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°	1917	1917	1917
5°	1919	1908	1919
10°	1913	1902	1913
15°	1899	1892	1901
20°	1885	1878	1889
25°	1866	1862	1871
30°	1841	1841	1849
35°	1818	1820	1829
40°	1793	1796	1805
45°	1767	1772	1774
50°	1737	1742	1739
55°	1702	1711	1708
60°	1668	1668	1668
65°	1629	1629	1638
70°	1578	1578	1563
75°	1523	1517	1510
80°	1454	1443	1433
85°	1368	1346	1306



TEST NUMBER: P291693

CATALOG NUMBER: 14GR-LD5-28-FGW080-UNV-L92765-W2A1-U-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.4	3.3
10°-20°	192.3	9.4
20°-30°	289.7	14.2
30°-40°	347.2	17.0
40°-50°	359.0	17.6
50°-60°	325.6	16.0
60°-70°	253.0	12.4
70°-80°	154.5	7.6
80°-90°	48.4	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°	549.4	27.0
0°-40°	896.6	44.0
0°-60°	1581.1	77.6
0°-90°	2037.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2037.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	712	712	712	712	712	
5°	710	710	706	710	710	67
15°	682	682	679	682	682	192
25°	628	628	627	631	630	289
35°	554	554	554	557	557	346
45°	464	465	466	466	466	358
55°	363	364	365	365	364	324
65°	256	256	256	255	257	253
75°	146	146	146	145	145	155
85°	44	43	44	42	42	49
90°	0	0	0	0	0	



TEST NUMBER: P291693

CATALOG NUMBER: 14GR-LD5-28-FGW080-UNV-L92765-W2A1-U-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	712.4	712.4	712.4	712.4	712.4
2.5°	713.0	712.4	709.1	712.4	713.0
5°	710.4	709.8	706.5	709.8	710.4
7.5°	705.9	705.9	702.6	705.9	705.9
10°	700.0	699.4	696.1	699.4	700.0
12.5°	691.5	691.5	688.3	691.5	692.2
15°	681.8	681.8	679.2	682.4	682.4
17.5°	670.7	671.4	668.1	672.0	672.0
20°	658.3	657.7	655.7	659.0	659.6
22.5°	643.4	644.0	642.1	646.0	646.6
25°	628.4	628.4	627.1	631.0	630.3
27.5°	612.1	612.1	610.1	613.4	614.1
30°	592.6	593.2	592.6	595.8	595.2
32.5°	574.3	575.0	575.0	576.3	576.9
35°	553.5	554.1	554.1	556.8	556.8
37.5°	532.7	532.7	533.3	535.3	535.3
40°	510.5	511.2	511.2	513.1	513.8
42.5°	489.0	487.7	488.4	490.3	490.3
45°	464.3	464.9	465.6	466.2	466.2
47.5°	439.5	440.8	441.5	442.1	441.5
50°	414.8	416.1	416.1	415.4	415.4
52.5°	388.1	391.4	390.7	390.7	392.0
55°	362.7	364.0	364.7	364.7	364.0
57.5°	337.3	338.6	337.3	338.0	336.7
60°	310.0	310.6	310.0	310.0	310.0
62.5°	283.3	283.9	282.6	282.6	282.6
65°	255.9	255.9	255.9	254.6	257.2
67.5°	227.3	228.6	228.6	229.2	226.6
70°	200.6	201.2	200.6	199.9	198.6
72.5°	173.9	174.5	175.2	172.6	171.9
75°	146.5	146.5	145.9	145.2	145.2
77.5°	119.8	119.8	119.8	118.5	118.5
80°	93.8	94.4	93.1	93.1	92.5
82.5°	68.4	68.4	68.4	67.7	66.4
85°	44.3	43.0	43.6	42.3	42.3
87.5°	20.2	20.2	20.2	18.9	21.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)