

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: P291662

Luminaire Tested: **14GR-LD5-40-FGW080-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291662
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-LD5-40-FGW080-UNV-L93050-W2A1-U-4000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2872.0 lumens
Efficiency: N/A
Efficacy: 83.2 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

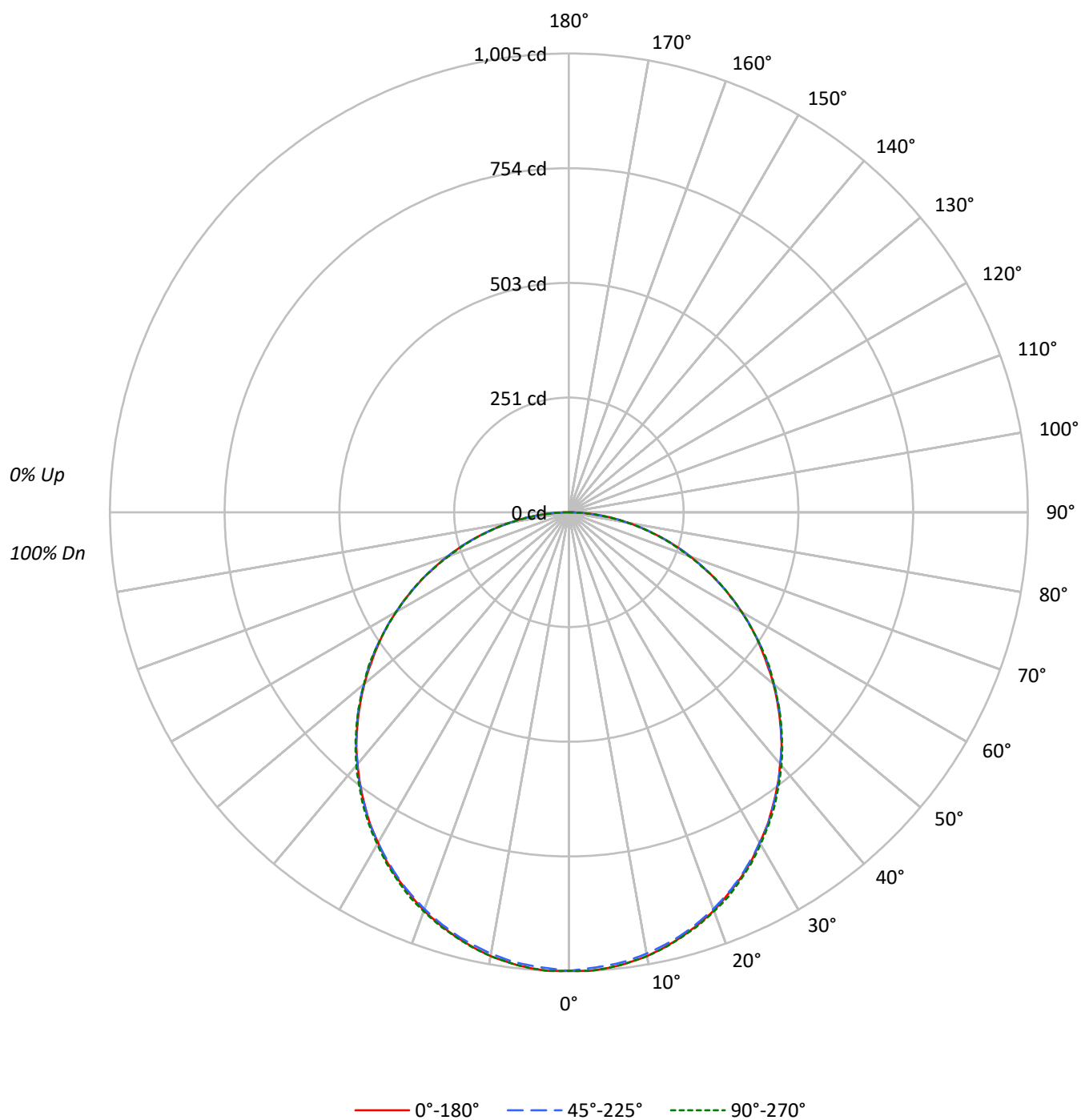
Input Watts (W): 34.503
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P291662

CATALOG NUMBER: 14GR-LD5-40-FGW080-UNV-L93050-W2A1-U-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P291662

CATALOG NUMBER: 14GR-LD5-40-FGW080-UNV-L93050-W2A1-U-4000K

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°	2703	2703	2703
5°	2706	2691	2706
10°	2697	2682	2697
15°	2678	2668	2681
20°	2658	2647	2663
25°	2631	2625	2639
30°	2596	2596	2607
35°	2564	2567	2579
40°	2529	2532	2545
45°	2491	2498	2502
50°	2448	2456	2452
55°	2399	2412	2408
60°	2352	2352	2352
65°	2297	2297	2309
70°	2225	2225	2203
75°	2148	2139	2128
80°	2049	2035	2021
85°	1927	1899	1843



TEST NUMBER: P291662

CATALOG NUMBER: 14GR-LD5-40-FGW080-UNV-L93050-W2A1-U-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.0	3.3
10°-20°	271.1	9.4
20°-30°	408.5	14.2
30°-40°	489.5	17.0
40°-50°	506.2	17.6
50°-60°	459.0	16.0
60°-70°	356.7	12.4
70°-80°	217.9	7.6
80°-90°	68.2	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°	774.5	27.0
0°-40°	1264.1	44.0
0°-60°	2229.3	77.6
0°-90°	2872.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2872.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1004	1004	1004	1004	1004	
5°	1002	1001	996	1001	1002	95
15°	961	961	958	962	962	271
25°	886	886	884	890	889	408
35°	780	781	781	785	785	488
45°	655	656	656	657	657	505
55°	511	513	514	514	513	457
65°	361	361	361	359	363	356
75°	207	207	206	205	205	218
85°	62	61	62	60	60	69
90°	0	0	0	0	0	



TEST NUMBER: P291662

CATALOG NUMBER: 14GR-LD5-40-FGW080-UNV-L93050-W2A1-U-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1004.4	1004.4	1004.4	1004.4	1004.4
2.5°	1005.3	1004.4	999.8	1004.4	1005.3
5°	1001.6	1000.7	996.1	1000.7	1001.6
7.5°	995.2	995.2	990.6	995.2	995.2
10°	987.0	986.0	981.4	986.0	987.0
12.5°	975.0	975.0	970.4	975.0	975.9
15°	961.2	961.2	957.6	962.2	962.2
17.5°	945.6	946.6	942.0	947.5	947.5
20°	928.2	927.3	924.5	929.1	930.0
22.5°	907.1	908.0	905.2	910.8	911.7
25°	886.0	886.0	884.1	889.6	888.7
27.5°	863.0	863.0	860.3	864.8	865.8
30°	835.5	836.4	835.5	840.1	839.1
32.5°	809.8	810.7	810.7	812.5	813.4
35°	780.4	781.3	781.3	785.0	785.0
37.5°	751.0	751.0	751.9	754.7	754.7
40°	719.8	720.7	720.7	723.5	724.4
42.5°	689.5	687.7	688.6	691.3	691.3
45°	654.6	655.5	656.4	657.4	657.4
47.5°	619.7	621.6	622.5	623.4	622.5
50°	584.8	586.7	586.7	585.7	585.7
52.5°	547.2	551.8	550.9	550.9	552.7
55°	511.4	513.2	514.1	514.1	513.2
57.5°	475.6	477.4	475.6	476.5	474.7
60°	437.0	437.9	437.0	437.0	437.0
62.5°	399.4	400.3	398.5	398.5	398.5
65°	360.8	360.8	360.8	359.0	362.6
67.5°	320.4	322.3	322.3	323.2	319.5
70°	282.8	283.7	282.8	281.9	280.0
72.5°	245.1	246.0	247.0	243.3	242.4
75°	206.6	206.6	205.7	204.7	204.7
77.5°	168.9	168.9	168.9	167.1	167.1
80°	132.2	133.1	131.3	131.3	130.4
82.5°	96.4	96.4	96.4	95.5	93.6
85°	62.4	60.6	61.5	59.7	59.7
87.5°	28.5	28.5	28.5	26.6	30.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)