

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: P294346

Luminaire Tested: **24GR-LD5-30-FGW080-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P294346  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-25)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24GR-LD5-30-FGW080-UNV-L92765-W2A1-U-5500K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH FGW080 LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2495.0 lumens  
Efficiency: N/A  
Efficacy: 121.4 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

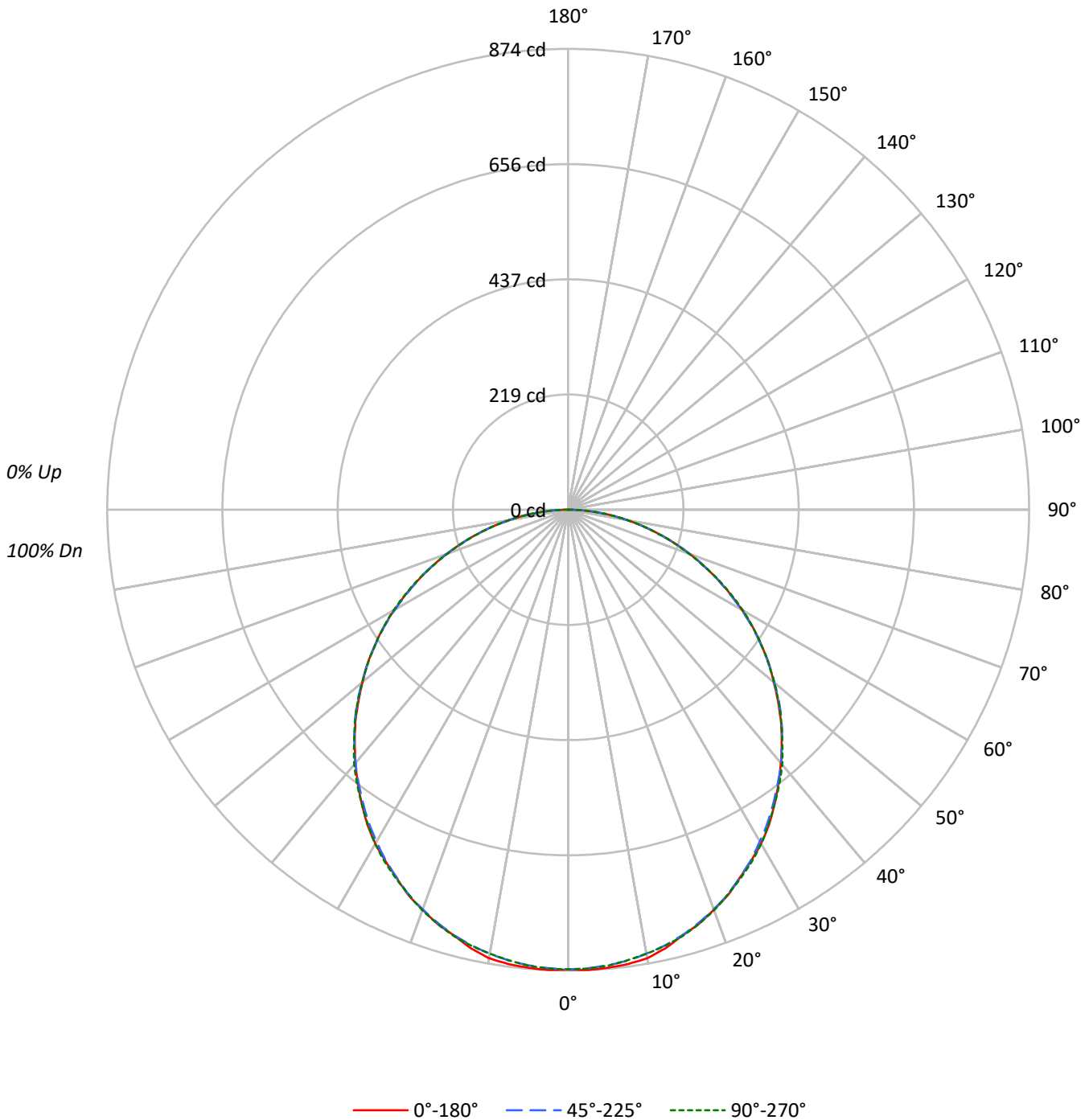
Input Watts (W): 20.553  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P294346

CATALOG NUMBER: 24GR-LD5-30-FGW080-UNV-L92765-W2A1-U-5500K

### Luminous Intensity Polar Plot





TEST NUMBER: P294346

CATALOG NUMBER: 24GR-LD5-30-FGW080-UNV-L92765-W2A1-U-5500K

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
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	94	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	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	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°	1173	1173	1173
5°	1178	1171	1172
10°	1180	1168	1168
15°	1165	1164	1166
20°	1156	1155	1158
25°	1143	1143	1146
30°	1136	1129	1137
35°	1120	1114	1120
40°	1102	1103	1109
45°	1086	1089	1087
50°	1065	1069	1067
55°	1049	1046	1049
60°	1024	1021	1031
65°	993	996	1000
70°	961	965	958
75°	927	927	927
80°	876	876	885
85°	809	818	790



TEST NUMBER: P294346

CATALOG NUMBER: 24GR-LD5-30-FGW080-UNV-L92765-W2A1-U-5500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.5	3.3
10°-20°	235.7	9.4
20°-30°	355.2	14.2
30°-40°	425.5	17.1
40°-50°	440.4	17.7
50°-60°	399.3	16.0
60°-70°	309.6	12.4
70°-80°	188.3	7.5
80°-90°	58.6	2.3
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°	673.4	27.0
0°-40°	1098.8	44.0
0°-60°	1938.6	77.7
0°-90°	2495.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2495.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	872	872	872	872	872	
5°	872	867	867	866	868	83
15°	836	837	836	833	837	236
25°	770	770	770	772	772	356
35°	682	677	678	681	682	427
45°	571	572	572	570	571	440
55°	447	445	446	448	447	400
65°	312	314	313	312	314	309
75°	178	178	178	178	178	188
85°	52	52	53	52	51	59
90°	0	0	0	0	0	



TEST NUMBER: P294346

CATALOG NUMBER: 24GR-LD5-30-FGW080-UNV-L92765-W2A1-U-5500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	872.0	872.0	872.0	872.0	872.0
2.5°	873.8	870.3	870.3	869.1	870.9
5°	872.0	866.7	867.3	866.1	867.9
7.5°	869.1	862.0	862.6	861.4	862.0
10°	863.8	855.6	855.0	854.4	855.0
12.5°	852.0	847.3	846.7	845.6	847.3
15°	836.1	836.7	835.5	832.6	837.3
17.5°	823.8	823.2	822.0	819.1	823.8
20°	807.3	807.9	806.7	805.5	808.5
22.5°	791.4	789.7	790.2	789.7	790.2
25°	770.2	770.2	769.6	772.0	772.0
27.5°	750.8	748.5	749.6	752.0	753.2
30°	731.4	725.5	726.7	729.0	732.0
32.5°	708.5	702.6	703.7	706.1	707.3
35°	682.0	677.3	678.4	681.4	682.0
37.5°	654.9	652.0	653.1	655.5	657.3
40°	627.3	626.1	627.8	627.3	631.4
42.5°	599.0	598.4	600.2	600.2	600.8
45°	570.8	571.9	572.5	570.2	571.4
47.5°	539.6	540.2	542.5	541.3	541.9
50°	509.0	508.4	510.7	511.3	509.6
52.5°	479.6	476.6	479.0	480.1	479.0
55°	447.2	444.8	446.0	447.8	447.2
57.5°	415.4	413.1	413.7	416.6	415.4
60°	380.7	380.1	379.5	381.9	383.1
62.5°	346.6	346.0	344.8	347.2	348.3
65°	311.9	313.6	313.0	311.9	314.2
67.5°	278.9	280.7	278.9	277.7	277.7
70°	244.2	246.0	245.4	244.2	243.6
72.5°	211.8	211.8	210.7	210.1	210.7
75°	178.3	177.7	178.3	177.7	178.3
77.5°	145.3	145.9	145.9	145.9	145.3
80°	113.0	113.0	113.0	113.6	114.2
82.5°	83.0	81.2	83.0	81.8	82.4
85°	52.4	51.8	53.0	52.4	51.2
87.5°	23.5	24.1	24.1	24.7	24.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)