

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: P294351

Luminaire Tested: **24GR-LD5-34-FGW080-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P294351  
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-LD5-34-FGW080-UNV-L92765-W2A1-U-3500K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH FGW080 LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2604.0 lumens  
Efficiency: N/A  
Efficacy: 112.9 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

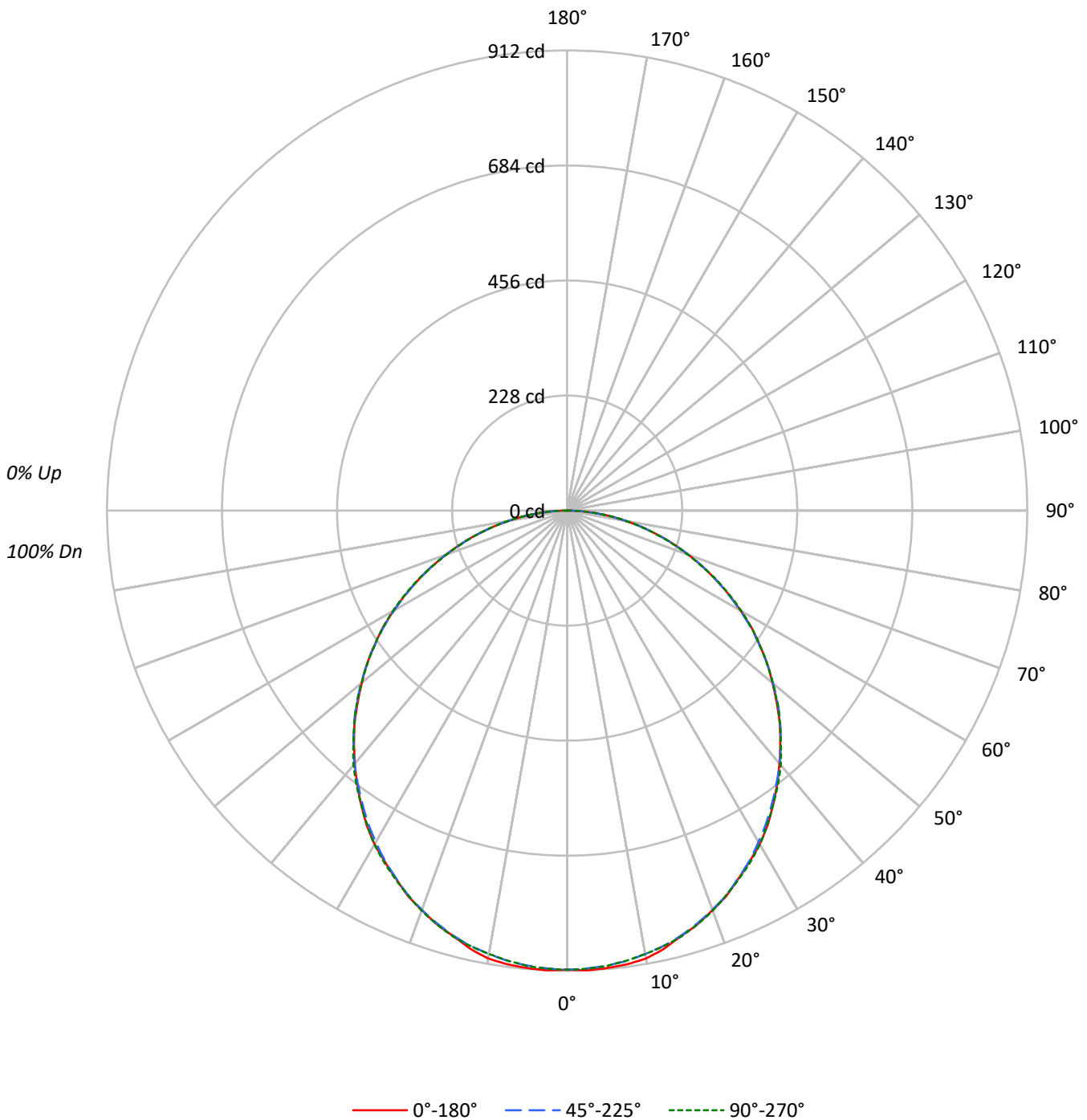
Input Watts (W): 23.064  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**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°	1225	1225	1225
5°	1229	1223	1223
10°	1232	1219	1219
15°	1216	1215	1217
20°	1206	1206	1208
25°	1193	1193	1196
30°	1186	1178	1187
35°	1169	1163	1169
40°	1150	1151	1157
45°	1134	1137	1135
50°	1112	1116	1113
55°	1095	1092	1095
60°	1069	1066	1076
65°	1036	1040	1044
70°	1003	1007	1000
75°	967	967	967
80°	914	914	923
85°	844	854	824



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.1	3.3
10°-20°	246.0	9.4
20°-30°	370.7	14.2
30°-40°	444.0	17.1
40°-50°	459.6	17.7
50°-60°	416.8	16.0
60°-70°	323.1	12.4
70°-80°	196.5	7.5
80°-90°	61.1	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°	702.8	27.0
0°-40°	1146.9	44.0
0°-60°	2023.3	77.7
0°-90°	2604.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2604.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	910	910	910	910	910	
5°	910	905	905	904	906	87
15°	873	873	872	869	874	247
25°	804	804	803	806	806	371
35°	712	707	708	711	712	445
45°	596	597	598	595	596	459
55°	467	464	466	467	467	417
65°	326	327	327	326	328	323
75°	186	186	186	186	186	197
85°	55	54	55	55	53	61
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	910.1	910.1	910.1	910.1	910.1
2.5°	912.0	908.3	908.3	907.1	908.9
5°	910.1	904.6	905.2	904.0	905.8
7.5°	907.1	899.7	900.3	899.1	899.7
10°	901.5	892.9	892.3	891.7	892.3
12.5°	889.2	884.3	883.7	882.5	884.3
15°	872.7	873.3	872.1	869.0	873.9
17.5°	859.8	859.2	857.9	854.9	859.8
20°	842.6	843.2	842.0	840.7	843.8
22.5°	826.0	824.2	824.8	824.2	824.8
25°	803.9	803.9	803.3	805.7	805.7
27.5°	783.6	781.2	782.4	784.8	786.1
30°	763.4	757.2	758.4	760.9	764.0
32.5°	739.4	733.3	734.5	736.9	738.2
35°	711.8	706.9	708.1	711.2	711.8
37.5°	683.5	680.4	681.7	684.1	686.0
40°	654.7	653.4	655.3	654.7	659.0
42.5°	625.2	624.6	626.4	626.4	627.0
45°	595.7	596.9	597.5	595.1	596.3
47.5°	563.1	563.8	566.2	565.0	565.6
50°	531.2	530.6	533.1	533.7	531.8
52.5°	500.5	497.4	499.9	501.1	499.9
55°	466.7	464.3	465.5	467.3	466.7
57.5°	433.6	431.1	431.7	434.8	433.6
60°	397.3	396.7	396.1	398.6	399.8
62.5°	361.7	361.1	359.9	362.3	363.6
65°	325.5	327.3	326.7	325.5	327.9
67.5°	291.1	292.9	291.1	289.9	289.9
70°	254.9	256.7	256.1	254.9	254.2
72.5°	221.1	221.1	219.9	219.2	219.9
75°	186.1	185.5	186.1	185.5	186.1
77.5°	151.7	152.3	152.3	152.3	151.7
80°	117.9	117.9	117.9	118.5	119.1
82.5°	86.6	84.7	86.6	85.4	86.0
85°	54.7	54.0	55.3	54.7	53.4
87.5°	24.6	25.2	25.2	25.8	25.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)