

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: P294367

Luminaire Tested: **24GR-LD5-42-FGW080-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P294367  
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-LD5-42-FGW080-UNV-L92765-W2A1-U-2700K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH FGW080 LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2864.0 lumens  
Efficiency: N/A  
Efficacy: 102.7 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

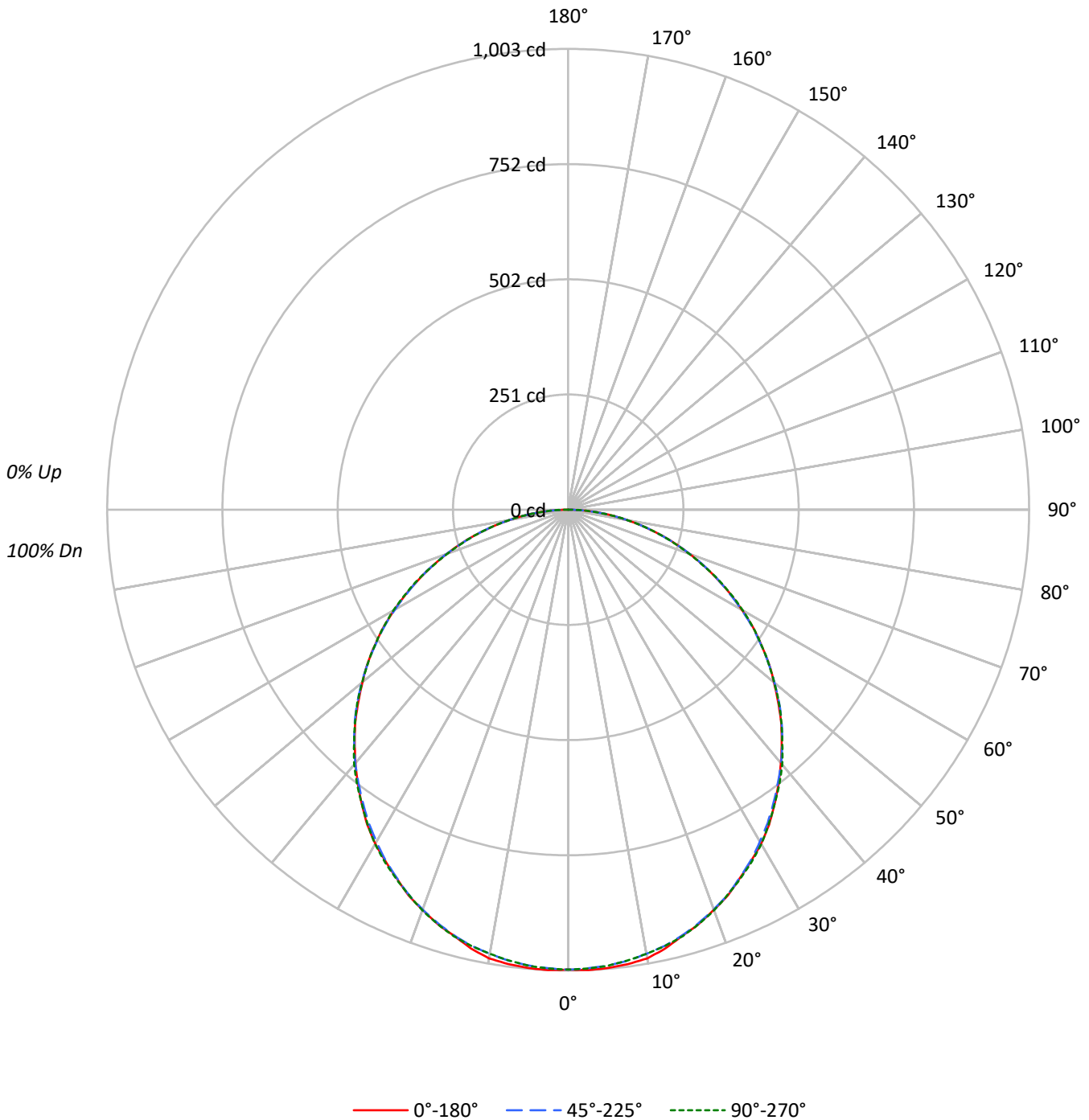
Input Watts (W): 27.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1347	1347	1347
5°	1352	1345	1346
10°	1355	1341	1341
15°	1337	1336	1339
20°	1327	1326	1329
25°	1313	1312	1316
30°	1304	1296	1305
35°	1286	1279	1286
40°	1265	1266	1273
45°	1247	1251	1248
50°	1223	1227	1224
55°	1204	1201	1204
60°	1176	1172	1183
65°	1140	1144	1148
70°	1103	1108	1100
75°	1064	1064	1064
80°	1005	1005	1015
85°	928	939	908



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.6	3.3
10°-20°	270.6	9.4
20°-30°	407.8	14.2
30°-40°	488.4	17.1
40°-50°	505.5	17.7
50°-60°	458.4	16.0
60°-70°	355.4	12.4
70°-80°	216.1	7.5
80°-90°	67.2	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°	773.0	27.0
0°-40°	1261.4	44.0
0°-60°	2225.3	77.7
0°-90°	2864.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2864.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1001	1001	1001	1001	1001	
5°	1001	995	996	994	996	95
15°	960	960	959	956	961	271
25°	884	884	884	886	886	408
35°	783	777	779	782	783	490
45°	655	656	657	654	656	505
55°	513	511	512	514	513	459
65°	358	360	359	358	361	355
75°	205	204	205	204	205	216
85°	60	59	61	60	59	67
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1001.0	1001.0	1001.0	1001.0	1001.0
2.5°	1003.0	999.0	999.0	997.6	999.7
5°	1001.0	994.9	995.6	994.2	996.3
7.5°	997.6	989.5	990.2	988.8	989.5
10°	991.5	982.1	981.4	980.7	981.4
12.5°	978.0	972.6	972.0	970.6	972.6
15°	959.8	960.5	959.1	955.7	961.1
17.5°	945.6	944.9	943.6	940.2	945.6
20°	926.7	927.4	926.0	924.7	928.1
22.5°	908.5	906.4	907.1	906.4	907.1
25°	884.1	884.1	883.5	886.2	886.2
27.5°	861.9	859.2	860.5	863.2	864.6
30°	839.6	832.8	834.2	836.9	840.2
32.5°	813.2	806.5	807.8	810.5	811.9
35°	782.8	777.4	778.8	782.2	782.8
37.5°	751.8	748.4	749.7	752.4	754.5
40°	720.0	718.7	720.7	720.0	724.7
42.5°	687.6	686.9	688.9	688.9	689.6
45°	655.2	656.5	657.2	654.5	655.9
47.5°	619.4	620.1	622.8	621.4	622.1
50°	584.3	583.6	586.3	587.0	584.9
52.5°	550.5	547.1	549.8	551.2	549.8
55°	513.3	510.6	512.0	514.0	513.3
57.5°	476.9	474.2	474.8	478.2	476.9
60°	437.0	436.3	435.7	438.4	439.7
62.5°	397.8	397.2	395.8	398.5	399.9
65°	358.0	360.0	359.3	358.0	360.7
67.5°	320.2	322.2	320.2	318.8	318.8
70°	280.3	282.3	281.7	280.3	279.6
72.5°	243.2	243.2	241.8	241.1	241.8
75°	204.7	204.0	204.7	204.0	204.7
77.5°	166.8	167.5	167.5	167.5	166.8
80°	129.7	129.7	129.7	130.4	131.0
82.5°	95.2	93.2	95.2	93.9	94.6
85°	60.1	59.4	60.8	60.1	58.8
87.5°	27.0	27.7	27.7	28.4	28.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)