

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: P294242

Luminaire Tested: **24GR-LD5-42-FGW080-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P294242  
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-L82765-W2A1-U-3000K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH FGW080 LENS  
Light Source: (336) 80 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3451.0 lumens  
Efficiency: N/A  
Efficacy: 124.1 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

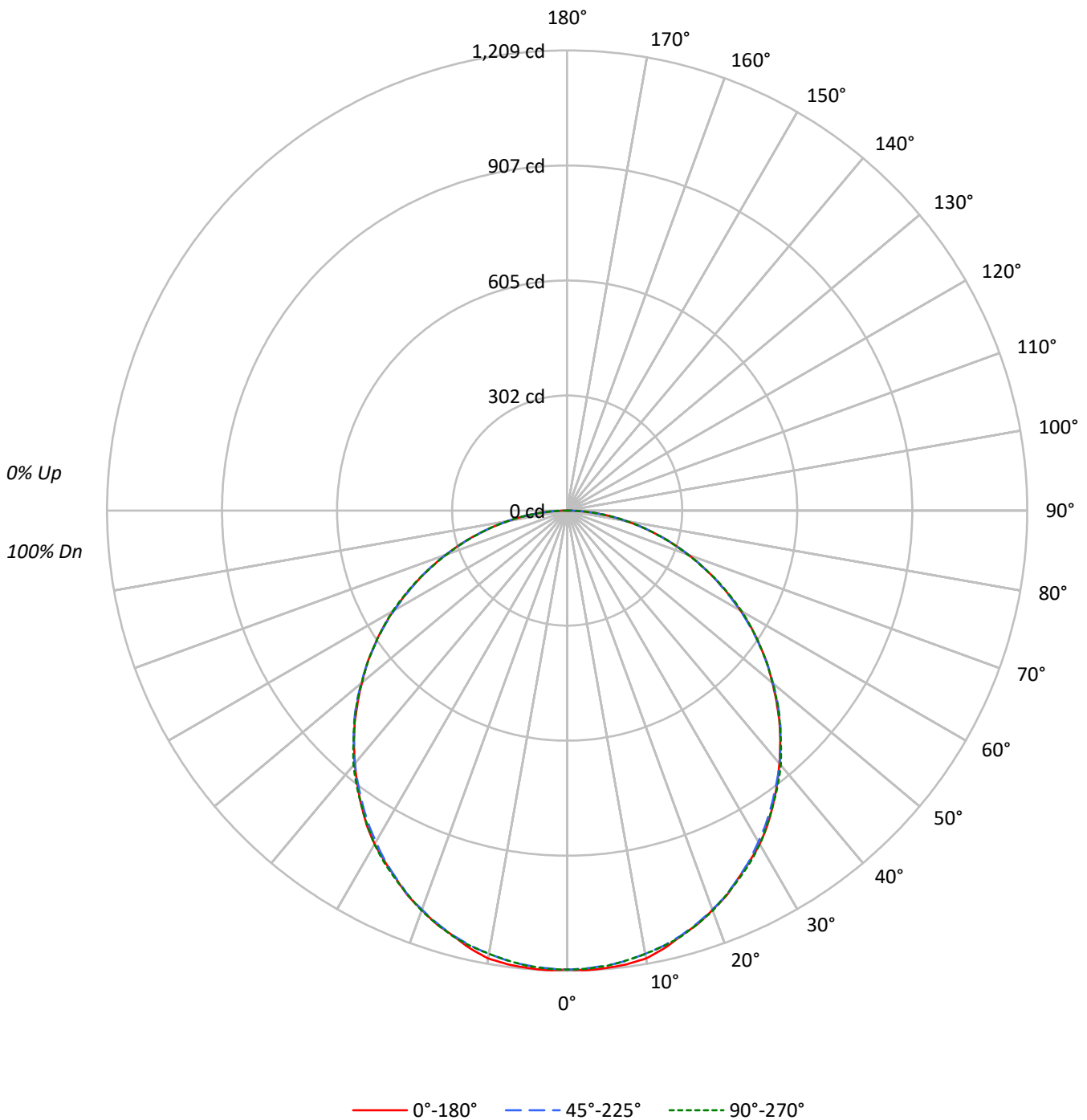
Input Watts (W): 27.807  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1623	1623	1623
5°	1629	1620	1621
10°	1632	1616	1616
15°	1611	1610	1613
20°	1599	1598	1601
25°	1582	1580	1585
30°	1572	1562	1573
35°	1549	1541	1549
40°	1524	1525	1534
45°	1502	1507	1504
50°	1474	1479	1475
55°	1451	1447	1451
60°	1417	1412	1426
65°	1373	1379	1384
70°	1329	1335	1325
75°	1282	1282	1282
80°	1211	1211	1223
85°	1118	1130	1093



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.0	3.3
10°-20°	326.0	9.4
20°-30°	491.3	14.2
30°-40°	588.5	17.1
40°-50°	609.2	17.7
50°-60°	552.3	16.0
60°-70°	428.2	12.4
70°-80°	260.4	7.5
80°-90°	81.0	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°	931.4	27.0
0°-40°	1519.9	44.0
0°-60°	2681.4	77.7
0°-90°	3451.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3451.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1206	1206	1206	1206	1206	
5°	1206	1199	1200	1198	1200	115
15°	1156	1157	1156	1152	1158	327
25°	1065	1065	1064	1068	1068	492
35°	943	937	938	942	943	590
45°	790	791	792	789	790	608
55°	618	615	617	619	618	553
65°	431	434	433	431	435	428
75°	247	246	247	246	247	261
85°	72	72	73	72	71	81
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1206.2	1206.2	1206.2	1206.2	1206.2
2.5°	1208.6	1203.7	1203.7	1202.1	1204.5
5°	1206.2	1198.8	1199.7	1198.0	1200.5
7.5°	1202.1	1192.3	1193.1	1191.5	1192.3
10°	1194.8	1183.4	1182.6	1181.7	1182.6
12.5°	1178.5	1172.0	1171.2	1169.5	1172.0
15°	1156.5	1157.3	1155.7	1151.6	1158.1
17.5°	1139.4	1138.6	1137.0	1132.9	1139.4
20°	1116.6	1117.5	1115.8	1114.2	1118.3
22.5°	1094.7	1092.2	1093.0	1092.2	1093.0
25°	1065.4	1065.4	1064.5	1067.8	1067.8
27.5°	1038.5	1035.3	1036.9	1040.1	1041.8
30°	1011.6	1003.5	1005.1	1008.4	1012.5
32.5°	979.9	971.8	973.4	976.7	978.3
35°	943.3	936.8	938.4	942.5	943.3
37.5°	905.8	901.8	903.4	906.7	909.1
40°	867.6	866.0	868.4	867.6	873.3
42.5°	828.5	827.7	830.2	830.2	831.0
45°	789.5	791.1	791.9	788.6	790.3
47.5°	746.3	747.1	750.4	748.8	749.6
50°	704.0	703.2	706.4	707.3	704.8
52.5°	663.3	659.2	662.5	664.1	662.5
55°	618.5	615.3	616.9	619.4	618.5
57.5°	574.6	571.3	572.2	576.2	574.6
60°	526.6	525.8	524.9	528.2	529.8
62.5°	479.4	478.6	476.9	480.2	481.8
65°	431.4	433.8	433.0	431.4	434.6
67.5°	385.8	388.2	385.8	384.1	384.1
70°	337.8	340.2	339.4	337.8	336.9
72.5°	293.0	293.0	291.4	290.6	291.4
75°	246.6	245.8	246.6	245.8	246.6
77.5°	201.0	201.8	201.8	201.8	201.0
80°	156.3	156.3	156.3	157.1	157.9
82.5°	114.8	112.3	114.8	113.1	113.9
85°	72.4	71.6	73.2	72.4	70.8
87.5°	32.6	33.4	33.4	34.2	34.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)