

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: P294365

Luminaire Tested: **24GR-LD5-38-FGW080-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P294365  
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-LD5-38-FGW080-UNV-L92765-W2A1-U-5700K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH FGW080 LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3163.0 lumens  
Efficiency: N/A  
Efficacy: 121.0 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

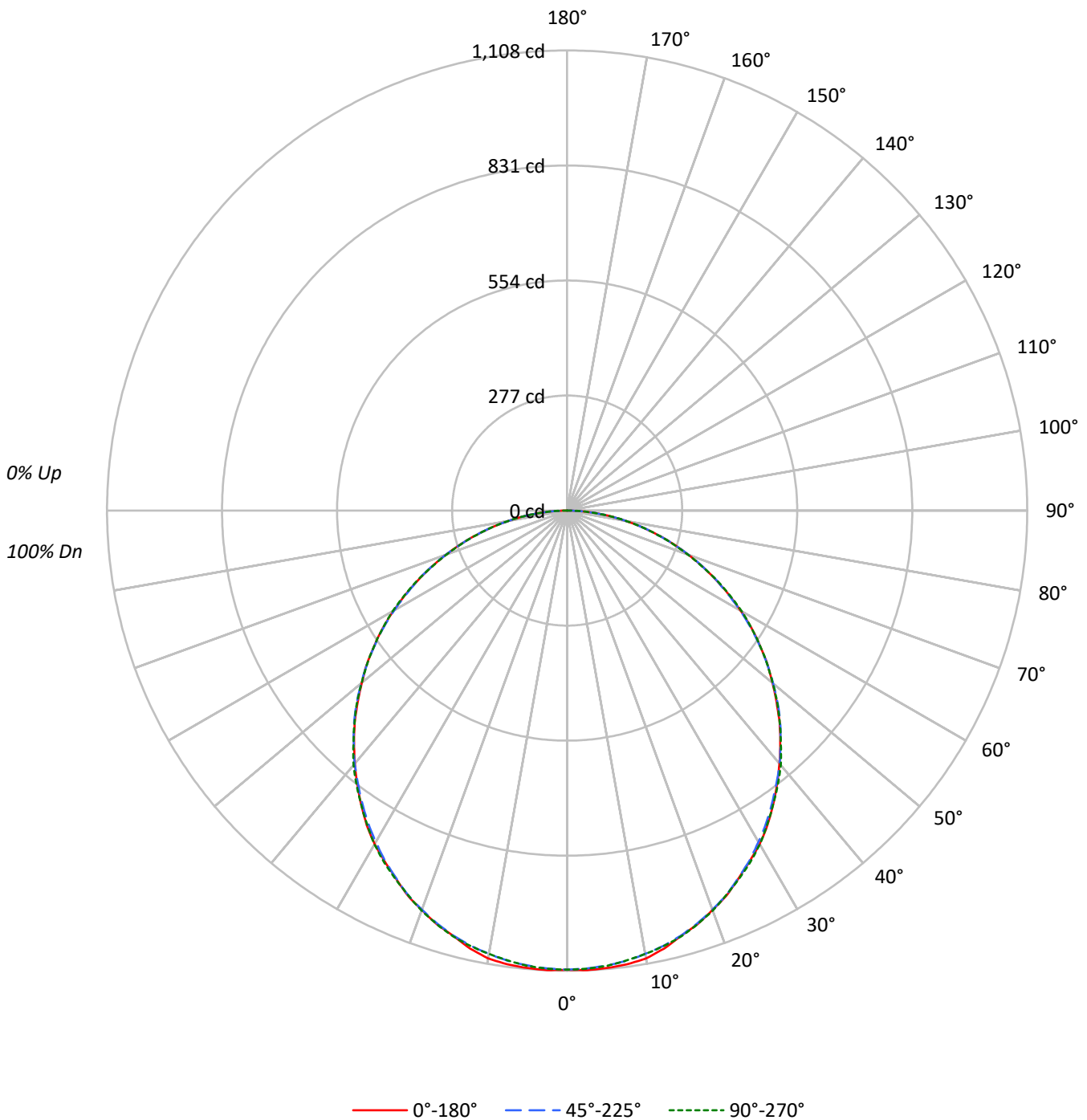
Input Watts (W): 26.133  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1487	1487	1487
5°	1493	1485	1486
10°	1496	1481	1481
15°	1477	1476	1479
20°	1465	1464	1467
25°	1450	1449	1453
30°	1441	1431	1442
35°	1420	1413	1420
40°	1397	1398	1406
45°	1377	1381	1378
50°	1351	1355	1352
55°	1330	1326	1330
60°	1299	1295	1307
65°	1259	1263	1268
70°	1218	1224	1215
75°	1175	1175	1175
80°	1110	1110	1121
85°	1025	1036	1002



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.5	3.3
10°-20°	298.8	9.4
20°-30°	450.3	14.2
30°-40°	539.4	17.1
40°-50°	558.3	17.7
50°-60°	506.2	16.0
60°-70°	392.5	12.4
70°-80°	238.7	7.5
80°-90°	74.2	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°	853.7	27.0
0°-40°	1393.0	44.0
0°-60°	2457.6	77.7
0°-90°	3163.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3163.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1106	1106	1106	1106	1106	
5°	1106	1099	1100	1098	1100	105
15°	1060	1061	1059	1056	1062	300
25°	976	976	976	979	979	451
35°	865	859	860	864	865	541
45°	724	725	726	723	724	557
55°	567	564	565	568	567	507
65°	395	398	397	395	398	392
75°	226	225	226	225	226	239
85°	66	66	67	66	65	74
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1105.5	1105.5	1105.5	1105.5	1105.5
2.5°	1107.7	1103.3	1103.3	1101.8	1104.0
5°	1105.5	1098.8	1099.5	1098.0	1100.3
7.5°	1101.8	1092.8	1093.6	1092.1	1092.8
10°	1095.1	1084.6	1083.9	1083.1	1083.9
12.5°	1080.1	1074.2	1073.4	1071.9	1074.2
15°	1060.0	1060.7	1059.3	1055.5	1061.5
17.5°	1044.3	1043.6	1042.1	1038.4	1044.3
20°	1023.4	1024.2	1022.7	1021.2	1024.9
22.5°	1003.3	1001.1	1001.8	1001.1	1001.8
25°	976.5	976.5	975.7	978.7	978.7
27.5°	951.8	948.9	950.3	953.3	954.8
30°	927.2	919.8	921.3	924.2	928.0
32.5°	898.1	890.7	892.2	895.1	896.6
35°	864.6	858.6	860.1	863.8	864.6
37.5°	830.2	826.5	828.0	831.0	833.2
40°	795.2	793.7	795.9	795.2	800.4
42.5°	759.4	758.6	760.9	760.9	761.6
45°	723.6	725.1	725.8	722.8	724.3
47.5°	684.0	684.8	687.8	686.3	687.0
50°	645.3	644.5	647.5	648.2	646.0
52.5°	608.0	604.2	607.2	608.7	607.2
55°	566.9	563.9	565.4	567.7	566.9
57.5°	526.6	523.7	524.4	528.1	526.6
60°	482.6	481.9	481.1	484.1	485.6
62.5°	439.4	438.6	437.1	440.1	441.6
65°	395.4	397.6	396.8	395.4	398.3
67.5°	353.6	355.8	353.6	352.1	352.1
70°	309.6	311.8	311.1	309.6	308.8
72.5°	268.5	268.5	267.1	266.3	267.1
75°	226.0	225.3	226.0	225.3	226.0
77.5°	184.3	185.0	185.0	185.0	184.3
80°	143.2	143.2	143.2	144.0	144.7
82.5°	105.2	102.9	105.2	103.7	104.4
85°	66.4	65.6	67.1	66.4	64.9
87.5°	29.8	30.6	30.6	31.3	31.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)