

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: P294345

Luminaire Tested: **24GR-LD5-30-FGW080-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P294345  
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-5000K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH FGW080 LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2457.0 lumens  
Efficiency: N/A  
Efficacy: 120.1 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

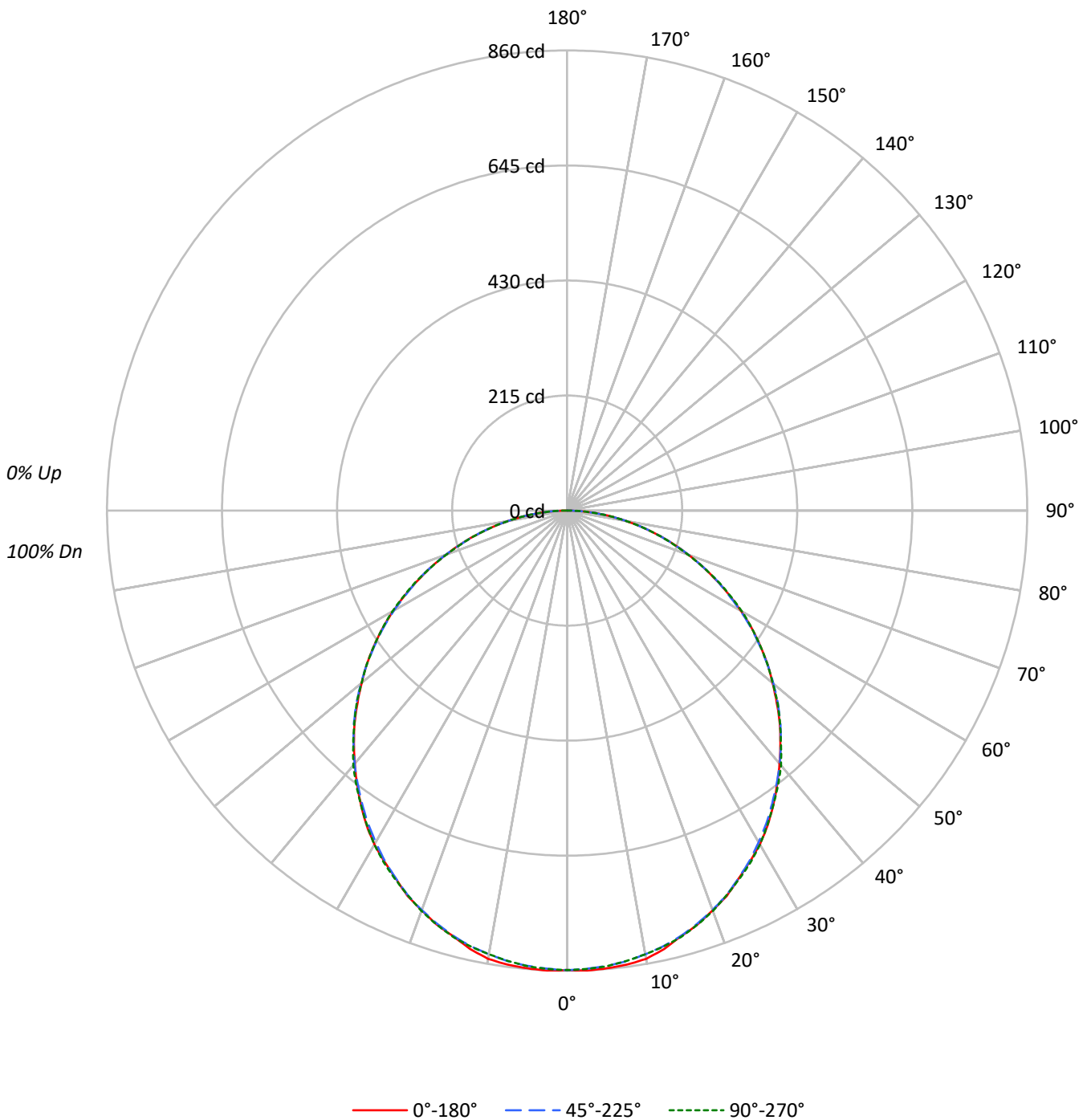
Input Watts (W): 20.46  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1155	1155	1155
5°	1160	1154	1154
10°	1162	1150	1150
15°	1147	1146	1149
20°	1138	1137	1140
25°	1126	1125	1129
30°	1119	1112	1120
35°	1103	1097	1103
40°	1085	1086	1092
45°	1070	1073	1071
50°	1049	1053	1050
55°	1033	1030	1033
60°	1009	1006	1015
65°	978	982	985
70°	946	950	944
75°	913	913	913
80°	862	862	871
85°	797	806	778



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.2	3.3
10°-20°	232.1	9.4
20°-30°	349.8	14.2
30°-40°	419.0	17.1
40°-50°	433.7	17.7
50°-60°	393.2	16.0
60°-70°	304.9	12.4
70°-80°	185.4	7.5
80°-90°	57.7	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°	663.1	27.0
0°-40°	1082.1	44.0
0°-60°	1909.0	77.7
0°-90°	2457.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2457.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	859	859	859	859	859	
5°	859	854	854	853	855	82
15°	823	824	823	820	825	233
25°	758	758	758	760	760	350
35°	672	667	668	671	672	420
45°	562	563	564	562	563	433
55°	440	438	439	441	440	394
65°	307	309	308	307	309	305
75°	176	175	176	175	176	185
85°	52	51	52	52	50	58
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	858.7	858.7	858.7	858.7	858.7
2.5°	860.5	857.0	857.0	855.9	857.6
5°	858.7	853.5	854.1	853.0	854.7
7.5°	855.9	848.9	849.5	848.3	848.9
10°	850.6	842.5	841.9	841.4	841.9
12.5°	839.0	834.4	833.8	832.7	834.4
15°	823.4	824.0	822.8	819.9	824.6
17.5°	811.2	810.7	809.5	806.6	811.2
20°	795.0	795.6	794.4	793.3	796.2
22.5°	779.4	777.6	778.2	777.6	778.2
25°	758.5	758.5	757.9	760.2	760.2
27.5°	739.4	737.1	738.2	740.5	741.7
30°	720.3	714.5	715.6	717.9	720.8
32.5°	697.7	691.9	693.0	695.3	696.5
35°	671.6	667.0	668.1	671.0	671.6
37.5°	644.9	642.0	643.2	645.5	647.2
40°	617.7	616.5	618.3	617.7	621.8
42.5°	589.9	589.3	591.0	591.0	591.6
45°	562.1	563.2	563.8	561.5	562.6
47.5°	531.4	531.9	534.3	533.1	533.7
50°	501.2	500.6	503.0	503.5	501.8
52.5°	472.3	469.4	471.7	472.8	471.7
55°	440.4	438.1	439.2	441.0	440.4
57.5°	409.1	406.8	407.4	410.3	409.1
60°	374.9	374.3	373.7	376.1	377.2
62.5°	341.3	340.7	339.6	341.9	343.0
65°	307.1	308.8	308.3	307.1	309.4
67.5°	274.7	276.4	274.7	273.5	273.5
70°	240.5	242.2	241.6	240.5	239.9
72.5°	208.6	208.6	207.4	206.9	207.4
75°	175.6	175.0	175.6	175.0	175.6
77.5°	143.1	143.7	143.7	143.7	143.1
80°	111.3	111.3	111.3	111.8	112.4
82.5°	81.7	80.0	81.7	80.5	81.1
85°	51.6	51.0	52.2	51.6	50.4
87.5°	23.2	23.8	23.8	24.3	24.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)