

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: P292893

Luminaire Tested: **22GR-LD5-40-FGW080-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292893  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-26)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22GR-LD5-40-FGW080-UNV-L92765-W2A1-U-3500K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH FGW080 LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2914.0 lumens  
Efficiency: N/A  
Efficacy: 89.8 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

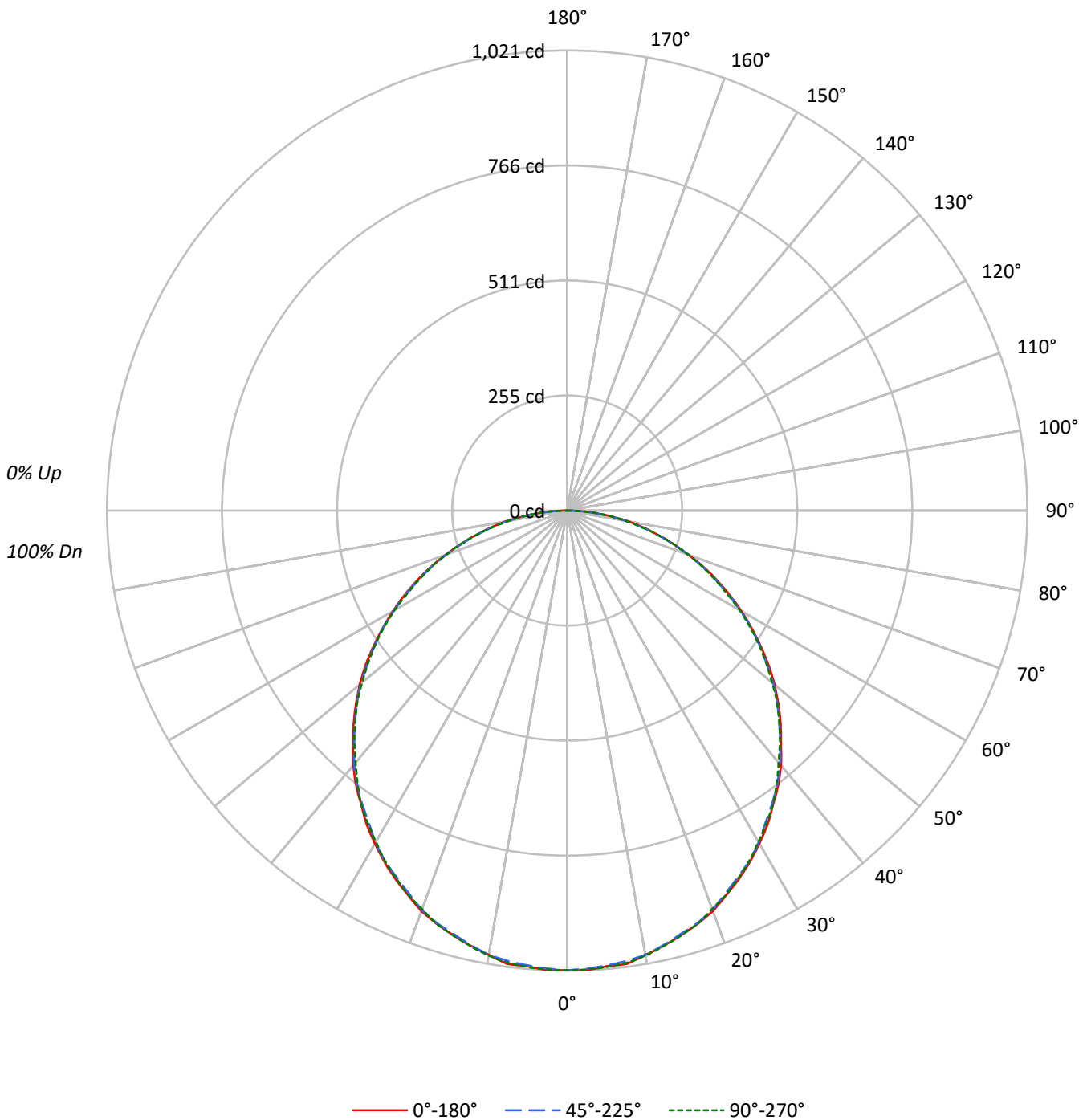
Input Watts (W): 32.457  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	85	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°	2745	2745	2745
5°	2741	2737	2746
10°	2735	2735	2740
15°	2717	2710	2720
20°	2708	2700	2695
25°	2678	2662	2670
30°	2651	2643	2637
35°	2617	2606	2617
40°	2594	2582	2564
45°	2550	2533	2533
50°	2515	2500	2486
55°	2461	2445	2441
60°	2404	2390	2381
65°	2343	2315	2304
70°	2249	2242	2249
75°	2171	2144	2162
80°	2148	2042	2029
85°	1902	1849	1877



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.5	3.3
10°-20°	275.3	9.4
20°-30°	414.5	14.2
30°-40°	497.5	17.1
40°-50°	514.8	17.7
50°-60°	466.4	16.0
60°-70°	361.6	12.4
70°-80°	219.5	7.5
80°-90°	67.9	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°	786.3	27.0
0°-40°	1283.8	44.1
0°-60°	2265.0	77.7
0°-90°	2914.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2914.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1020	1020	1020	1020	1020	
5°	1015	1015	1013	1016	1016	97
15°	975	975	973	977	976	276
25°	902	900	897	900	899	416
35°	797	797	793	794	797	499
45°	670	669	666	666	666	517
55°	524	524	521	520	520	469
65°	368	368	364	365	362	364
75°	209	208	206	206	208	222
85°	62	61	60	60	61	70
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1019.9	1019.9	1019.9	1019.9	1019.9
2.5°	1020.8	1016.5	1017.4	1019.1	1019.1
5°	1014.8	1014.8	1013.1	1015.6	1016.5
7.5°	1014.8	1010.5	1007.9	1010.5	1012.2
10°	1001.1	999.4	1001.1	1000.2	1002.8
12.5°	989.1	987.4	987.4	990.0	990.0
15°	975.4	975.4	972.9	977.1	976.3
17.5°	961.7	961.7	960.0	960.0	961.7
20°	945.5	941.2	942.9	942.1	941.2
22.5°	923.2	920.7	919.0	921.5	922.4
25°	901.8	900.1	896.7	900.1	899.3
27.5°	878.7	877.0	876.2	874.5	876.2
30°	853.1	851.4	850.5	848.8	848.8
32.5°	827.4	824.0	819.7	824.0	823.1
35°	796.6	796.6	793.2	794.0	796.6
37.5°	769.2	767.5	765.8	763.2	764.1
40°	738.4	735.9	735.0	733.3	729.9
42.5°	702.5	702.5	699.1	699.9	699.1
45°	670.0	669.1	665.7	665.7	665.7
47.5°	635.7	634.9	632.3	630.6	632.3
50°	600.7	597.2	597.2	594.7	593.8
52.5°	563.9	561.3	557.9	558.7	557.0
55°	524.5	523.7	521.1	520.2	520.2
57.5°	485.1	486.0	484.3	480.9	481.7
60°	446.6	445.8	444.1	442.4	442.4
62.5°	407.3	407.3	403.9	403.9	400.4
65°	367.9	367.9	363.6	365.4	361.9
67.5°	328.6	327.7	325.1	324.3	325.1
70°	285.8	286.6	284.9	284.9	285.8
72.5°	247.3	246.4	245.6	245.6	247.3
75°	208.8	207.9	206.2	206.2	207.9
77.5°	173.7	169.4	168.6	170.3	167.7
80°	138.6	132.6	131.8	130.9	130.9
82.5°	97.5	95.0	95.8	95.0	96.7
85°	61.6	60.8	59.9	59.9	60.8
87.5°	29.1	27.4	27.4	26.5	26.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)