

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: P292858

Luminaire Tested: **22GR-LD5-24-FGW080-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292858  
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-LD5-24-FGW080-UNV-L92765-W2A1-U-4000K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH FGW080 LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1800.0 lumens  
Efficiency: N/A  
Efficacy: 98.2 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

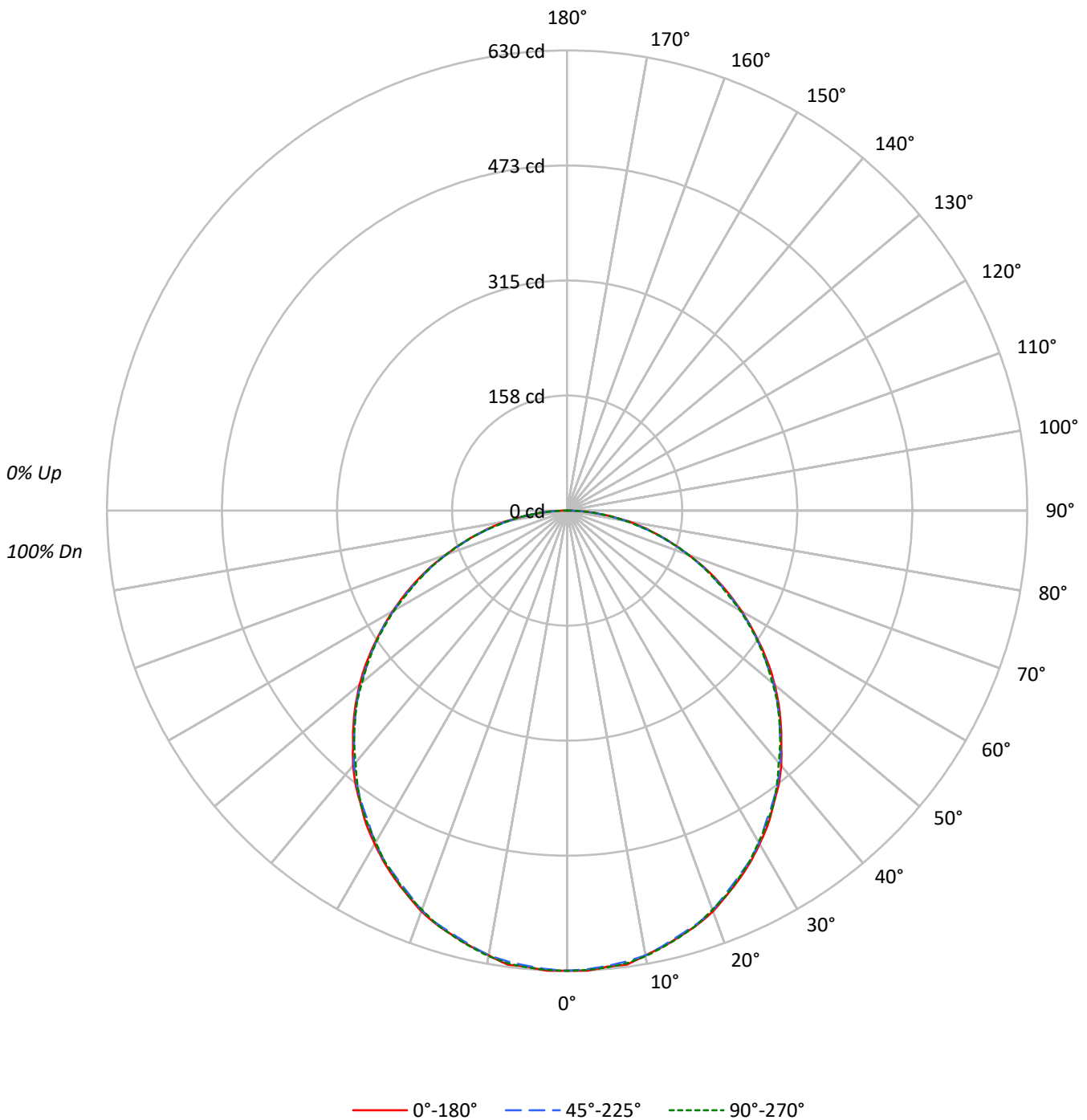
Input Watts (W): 18.321  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1695	1695	1695
5°	1693	1690	1696
10°	1690	1690	1693
15°	1679	1674	1680
20°	1672	1668	1665
25°	1654	1645	1649
30°	1638	1633	1629
35°	1617	1610	1617
40°	1602	1595	1584
45°	1575	1565	1565
50°	1553	1544	1536
55°	1520	1510	1508
60°	1485	1476	1471
65°	1447	1430	1424
70°	1389	1385	1389
75°	1341	1325	1335
80°	1327	1261	1254
85°	1176	1142	1158



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.6	3.3
10°-20°	170.0	9.4
20°-30°	256.1	14.2
30°-40°	307.3	17.1
40°-50°	318.0	17.7
50°-60°	288.1	16.0
60°-70°	223.4	12.4
70°-80°	135.6	7.5
80°-90°	42.0	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°	485.7	27.0
0°-40°	793.0	44.1
0°-60°	1399.1	77.7
0°-90°	1800.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1800.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	630	630	630	630	630	
5°	627	627	626	627	628	60
15°	602	602	601	604	603	170
25°	557	556	554	556	556	257
35°	492	492	490	490	492	309
45°	414	413	411	411	411	319
55°	324	324	322	321	321	290
65°	227	227	225	226	224	225
75°	129	128	127	127	128	137
85°	38	38	37	37	38	43
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	630.0	630.0	630.0	630.0	630.0
2.5°	630.5	627.9	628.4	629.5	629.5
5°	626.8	626.8	625.8	627.4	627.9
7.5°	626.8	624.2	622.6	624.2	625.3
10°	618.4	617.3	618.4	617.9	619.4
12.5°	611.0	609.9	609.9	611.5	611.5
15°	602.5	602.5	600.9	603.6	603.1
17.5°	594.1	594.1	593.0	593.0	594.1
20°	584.0	581.4	582.4	581.9	581.4
22.5°	570.3	568.7	567.6	569.2	569.8
25°	557.1	556.0	553.9	556.0	555.5
27.5°	542.8	541.8	541.2	540.2	541.2
30°	527.0	525.9	525.4	524.3	524.3
32.5°	511.1	509.0	506.3	509.0	508.5
35°	492.1	492.1	490.0	490.5	492.1
37.5°	475.2	474.1	473.0	471.5	472.0
40°	456.1	454.5	454.0	453.0	450.8
42.5°	433.9	433.9	431.8	432.3	431.8
45°	413.8	413.3	411.2	411.2	411.2
47.5°	392.7	392.2	390.6	389.5	390.6
50°	371.0	368.9	368.9	367.3	366.8
52.5°	348.3	346.7	344.6	345.1	344.1
55°	324.0	323.5	321.9	321.4	321.4
57.5°	299.7	300.2	299.2	297.0	297.6
60°	275.9	275.4	274.3	273.3	273.3
62.5°	251.6	251.6	249.5	249.5	247.4
65°	227.3	227.3	224.6	225.7	223.6
67.5°	203.0	202.4	200.8	200.3	200.8
70°	176.5	177.1	176.0	176.0	176.5
72.5°	152.7	152.2	151.7	151.7	152.7
75°	129.0	128.4	127.4	127.4	128.4
77.5°	107.3	104.7	104.1	105.2	103.6
80°	85.6	81.9	81.4	80.9	80.9
82.5°	60.3	58.7	59.2	58.7	59.7
85°	38.1	37.5	37.0	37.0	37.5
87.5°	18.0	16.9	16.9	16.4	16.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)