

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: P292857

Luminaire Tested: **22GR-LD5-24-FGW080-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292857  
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-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: 1744.0 lumens  
Efficiency: N/A  
Efficacy: 96.2 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

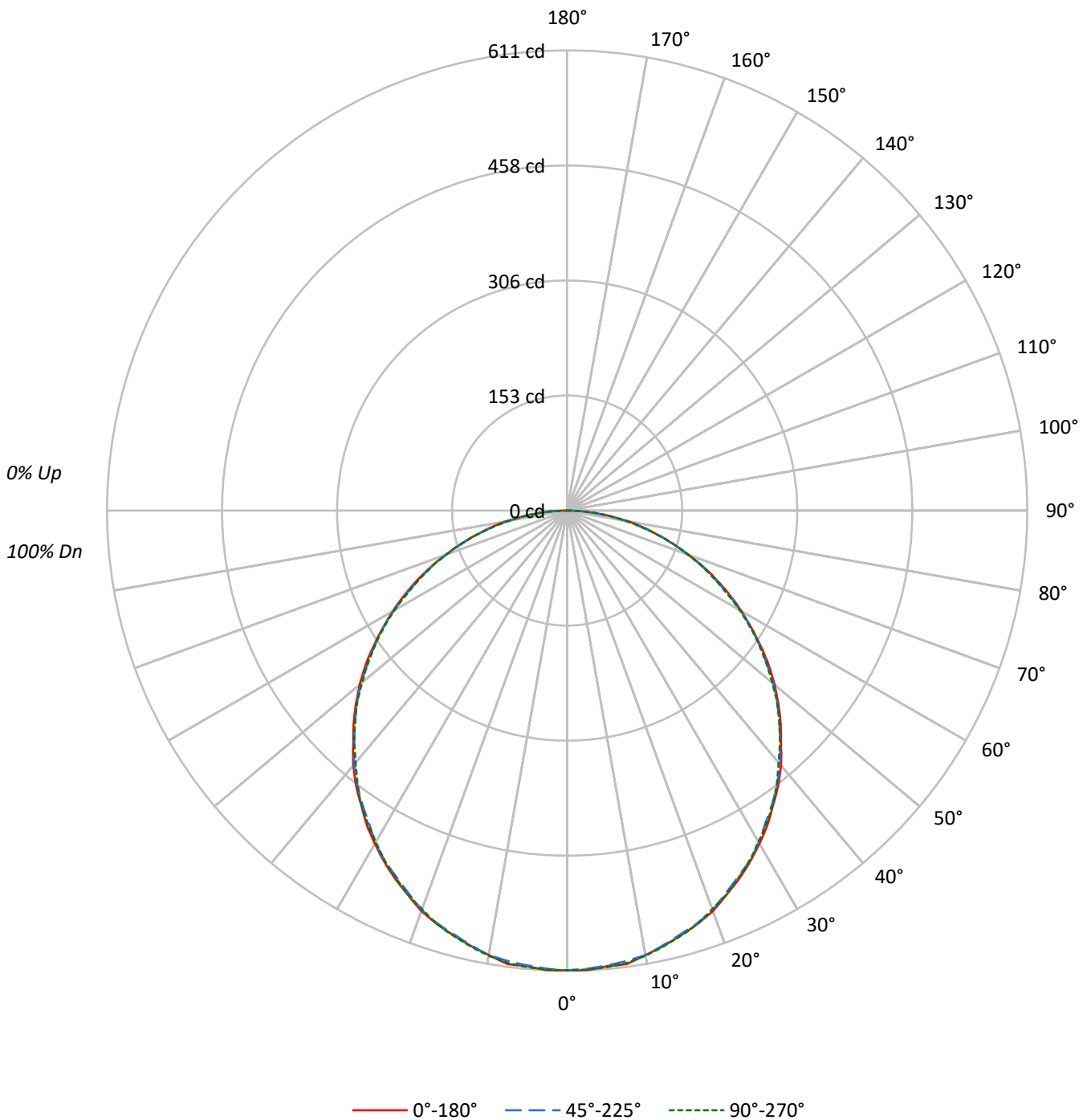
Input Watts (W): 18.135  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1643	1643	1643
5°	1640	1638	1643
10°	1637	1637	1640
15°	1626	1622	1628
20°	1621	1616	1613
25°	1602	1594	1598
30°	1587	1582	1578
35°	1566	1559	1566
40°	1552	1545	1534
45°	1526	1516	1516
50°	1505	1496	1488
55°	1473	1463	1461
60°	1439	1431	1425
65°	1402	1386	1379
70°	1345	1341	1345
75°	1300	1283	1293
80°	1286	1223	1215
85°	1139	1105	1124



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.7	3.3
10°-20°	164.8	9.4
20°-30°	248.1	14.2
30°-40°	297.7	17.1
40°-50°	308.1	17.7
50°-60°	279.2	16.0
60°-70°	216.4	12.4
70°-80°	131.4	7.5
80°-90°	40.7	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°	470.6	27.0
0°-40°	768.3	44.1
0°-60°	1355.6	77.7
0°-90°	1744.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1744.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	610	610	610	610	610	
5°	607	607	606	608	608	58
15°	584	584	582	585	584	165
25°	540	539	537	539	538	249
35°	477	477	475	475	477	299
45°	401	400	398	398	398	309
55°	314	313	312	311	311	281
65°	220	220	218	219	217	218
75°	125	124	123	123	124	133
85°	37	36	36	36	36	42
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	610.4	610.4	610.4	610.4	610.4
2.5°	610.9	608.4	608.9	609.9	609.9
5°	607.3	607.3	606.3	607.9	608.4
7.5°	607.3	604.8	603.2	604.8	605.8
10°	599.2	598.1	599.2	598.6	600.2
12.5°	592.0	591.0	591.0	592.5	592.5
15°	583.8	583.8	582.3	584.8	584.3
17.5°	575.6	575.6	574.6	574.6	575.6
20°	565.9	563.3	564.3	563.8	563.3
22.5°	552.5	551.0	550.0	551.5	552.0
25°	539.7	538.7	536.7	538.7	538.2
27.5°	525.9	524.9	524.4	523.4	524.4
30°	510.6	509.5	509.0	508.0	508.0
32.5°	495.2	493.1	490.6	493.1	492.6
35°	476.8	476.8	474.7	475.2	476.8
37.5°	460.4	459.3	458.3	456.8	457.3
40°	441.9	440.4	439.9	438.9	436.8
42.5°	420.4	420.4	418.4	418.9	418.4
45°	401.0	400.5	398.4	398.4	398.4
47.5°	380.5	380.0	378.4	377.4	378.4
50°	359.5	357.4	357.4	355.9	355.4
52.5°	337.5	335.9	333.9	334.4	333.4
55°	313.9	313.4	311.9	311.4	311.4
57.5°	290.4	290.9	289.8	287.8	288.3
60°	267.3	266.8	265.8	264.8	264.8
62.5°	243.8	243.8	241.7	241.7	239.7
65°	220.2	220.2	217.6	218.7	216.6
67.5°	196.6	196.1	194.6	194.1	194.6
70°	171.0	171.6	170.5	170.5	171.0
72.5°	148.0	147.5	147.0	147.0	148.0
75°	125.0	124.4	123.4	123.4	124.4
77.5°	104.0	101.4	100.9	101.9	100.4
80°	83.0	79.4	78.9	78.4	78.4
82.5°	58.4	56.8	57.4	56.8	57.9
85°	36.9	36.4	35.8	35.8	36.4
87.5°	17.4	16.4	16.4	15.9	15.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)