

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: P292718

Luminaire Tested: **22GR-LD5-24-FGW080-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292718  
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-L83050-W2A1-U-3000K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH FGW080 LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1926.0 lumens  
Efficiency: N/A  
Efficacy: 106.2 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

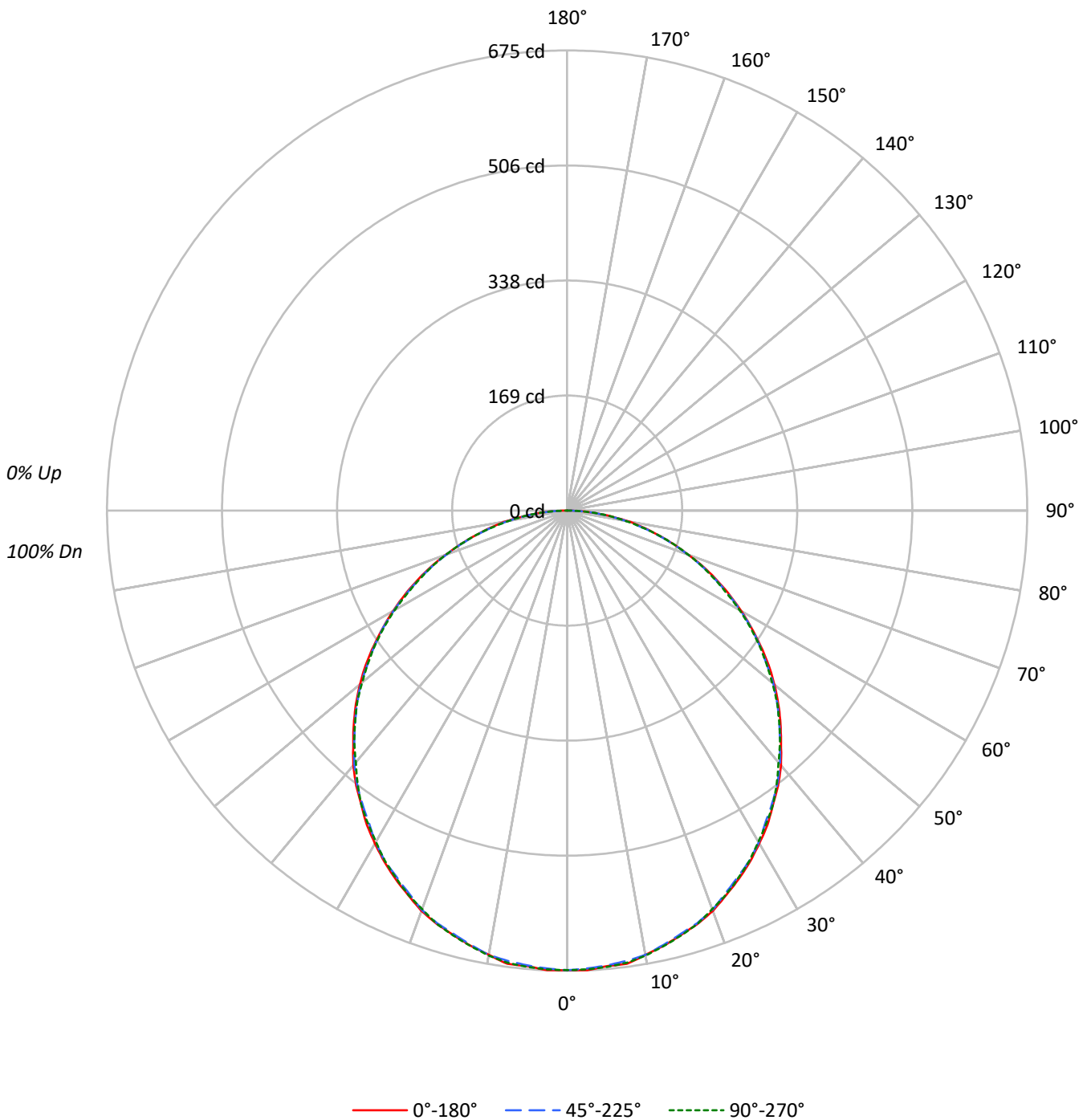
Input Watts (W): 18.135  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1814	1814	1814
5°	1812	1809	1815
10°	1808	1808	1811
15°	1796	1791	1798
20°	1790	1785	1781
25°	1770	1760	1765
30°	1752	1747	1743
35°	1730	1722	1730
40°	1715	1707	1695
45°	1685	1674	1674
50°	1662	1652	1643
55°	1627	1616	1613
60°	1589	1580	1574
65°	1549	1531	1523
70°	1486	1482	1486
75°	1435	1417	1429
80°	1420	1350	1340
85°	1257	1223	1241



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.8	3.3
10°-20°	182.0	9.4
20°-30°	274.0	14.2
30°-40°	328.8	17.1
40°-50°	340.2	17.7
50°-60°	308.3	16.0
60°-70°	239.0	12.4
70°-80°	145.1	7.5
80°-90°	44.9	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°	519.7	27.0
0°-40°	848.5	44.1
0°-60°	1497.0	77.7
0°-90°	1926.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1926.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	674	674	674	674	674	
5°	671	671	670	671	672	64
15°	645	645	643	646	645	182
25°	596	595	593	595	594	275
35°	526	526	524	525	526	330
45°	443	442	440	440	440	342
55°	347	346	344	344	344	310
65°	243	243	240	242	239	240
75°	138	137	136	136	137	147
85°	41	40	40	40	40	46
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	674.1	674.1	674.1	674.1	674.1
2.5°	674.7	671.9	672.4	673.6	673.6
5°	670.7	670.7	669.6	671.3	671.9
7.5°	670.7	667.9	666.2	667.9	669.0
10°	661.7	660.5	661.7	661.1	662.8
12.5°	653.8	652.6	652.6	654.3	654.3
15°	644.7	644.7	643.0	645.8	645.3
17.5°	635.7	635.7	634.5	634.5	635.7
20°	624.9	622.1	623.2	622.7	622.1
22.5°	610.2	608.5	607.4	609.1	609.6
25°	596.1	594.9	592.7	594.9	594.4
27.5°	580.8	579.7	579.1	578.0	579.1
30°	563.8	562.7	562.1	561.0	561.0
32.5°	546.9	544.6	541.8	544.6	544.0
35°	526.5	526.5	524.3	524.8	526.5
37.5°	508.4	507.3	506.2	504.5	505.0
40°	488.1	486.4	485.8	484.7	482.4
42.5°	464.3	464.3	462.0	462.6	462.0
45°	442.8	442.2	440.0	440.0	440.0
47.5°	420.2	419.6	417.9	416.8	417.9
50°	397.0	394.7	394.7	393.0	392.5
52.5°	372.7	371.0	368.7	369.3	368.2
55°	346.7	346.1	344.4	343.8	343.8
57.5°	320.7	321.2	320.1	317.8	318.4
60°	295.2	294.6	293.5	292.4	292.4
62.5°	269.2	269.2	266.9	266.9	264.7
65°	243.2	243.2	240.4	241.5	239.2
67.5°	217.2	216.6	214.9	214.3	214.9
70°	188.9	189.5	188.3	188.3	188.9
72.5°	163.4	162.9	162.3	162.3	163.4
75°	138.0	137.4	136.3	136.3	137.4
77.5°	114.8	112.0	111.4	112.5	110.8
80°	91.6	87.7	87.1	86.5	86.5
82.5°	64.5	62.8	63.3	62.8	63.9
85°	40.7	40.2	39.6	39.6	40.2
87.5°	19.2	18.1	18.1	17.5	17.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)