

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: P292760

Luminaire Tested: **22GR-LD5-24-FGW080-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292760  
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-L82765-W2A1-U-4000K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH FGW080 LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2034.0 lumens  
Efficiency: N/A  
Efficacy: 111.0 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

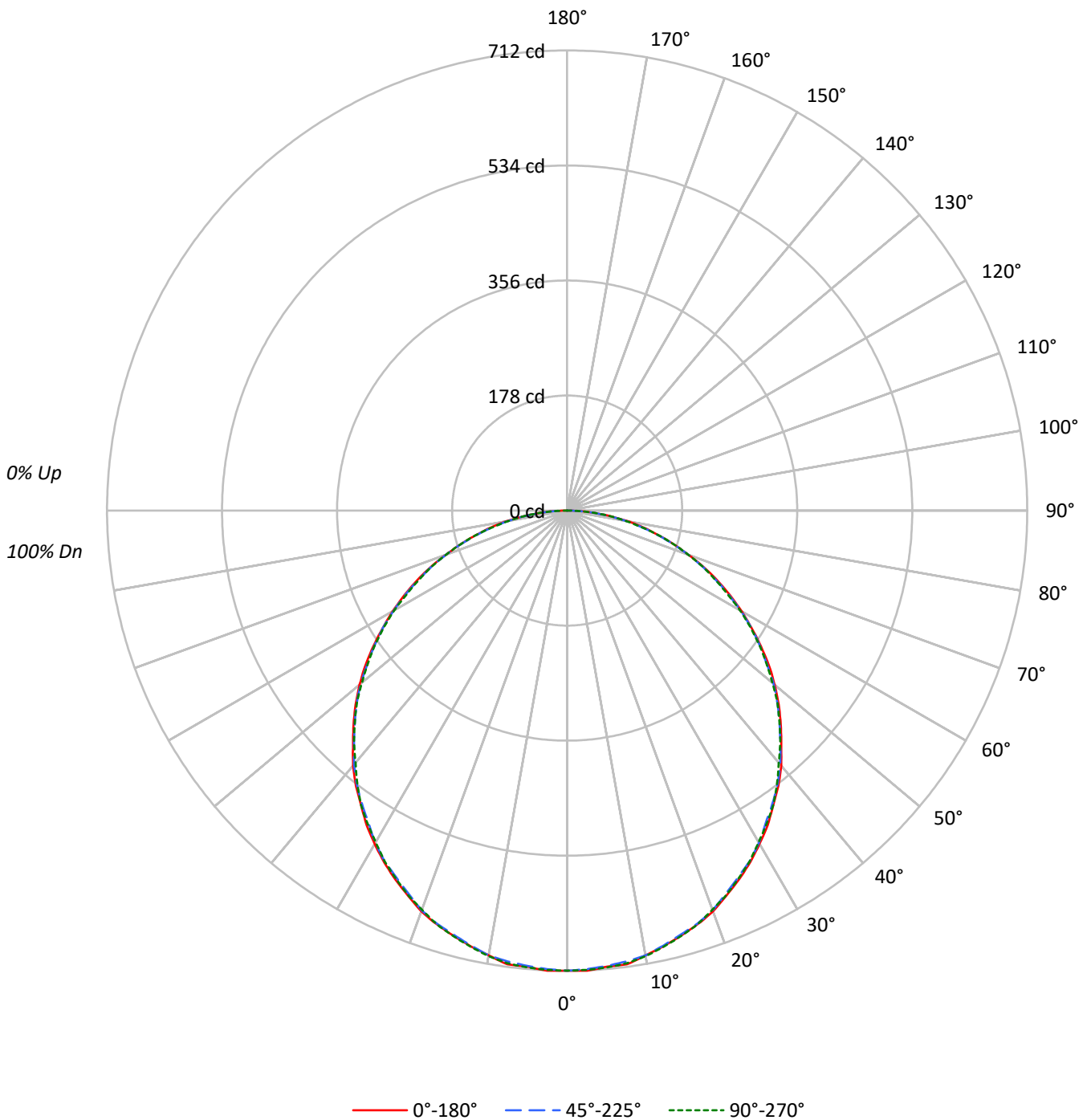
Input Watts (W): 18.321  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1916	1916	1916
5°	1913	1910	1917
10°	1909	1909	1913
15°	1897	1892	1899
20°	1890	1885	1881
25°	1869	1858	1864
30°	1850	1845	1841
35°	1827	1819	1827
40°	1811	1802	1790
45°	1780	1768	1768
50°	1755	1745	1735
55°	1718	1706	1704
60°	1678	1668	1662
65°	1635	1616	1608
70°	1570	1565	1570
75°	1515	1496	1509
80°	1500	1426	1416
85°	1328	1291	1309



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.3	3.3
10°-20°	192.2	9.4
20°-30°	289.4	14.2
30°-40°	347.2	17.1
40°-50°	359.3	17.7
50°-60°	325.6	16.0
60°-70°	252.4	12.4
70°-80°	153.2	7.5
80°-90°	47.4	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°	548.9	27.0
0°-40°	896.1	44.1
0°-60°	1581.0	77.7
0°-90°	2034.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2034.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	712	712	712	712	712	
5°	708	708	707	709	710	67
15°	681	681	679	682	682	192
25°	630	628	626	628	628	290
35°	556	556	554	554	556	349
45°	468	467	465	465	465	361
55°	366	366	364	363	363	327
65°	257	257	254	255	253	254
75°	146	145	144	144	145	155
85°	43	42	42	42	42	49
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	711.9	711.9	711.9	711.9	711.9
2.5°	712.5	709.5	710.1	711.3	711.3
5°	708.3	708.3	707.1	708.9	709.5
7.5°	708.3	705.3	703.6	705.3	706.5
10°	698.8	697.6	698.8	698.2	700.0
12.5°	690.4	689.2	689.2	691.0	691.0
15°	680.9	680.9	679.1	682.1	681.5
17.5°	671.3	671.3	670.1	670.1	671.3
20°	660.0	657.0	658.2	657.6	657.0
22.5°	644.4	642.6	641.4	643.2	643.8
25°	629.5	628.3	625.9	628.3	627.7
27.5°	613.4	612.2	611.6	610.4	611.6
30°	595.5	594.3	593.7	592.5	592.5
32.5°	577.5	575.1	572.2	575.1	574.6
35°	556.0	556.0	553.6	554.2	556.0
37.5°	536.9	535.7	534.5	532.7	533.3
40°	515.4	513.6	513.0	511.8	509.5
42.5°	490.3	490.3	488.0	488.5	488.0
45°	467.6	467.0	464.7	464.7	464.7
47.5°	443.8	443.2	441.4	440.2	441.4
50°	419.3	416.9	416.9	415.1	414.5
52.5°	393.6	391.8	389.4	390.0	388.8
55°	366.1	365.5	363.7	363.1	363.1
57.5°	338.6	339.2	338.0	335.7	336.3
60°	311.8	311.2	310.0	308.8	308.8
62.5°	284.3	284.3	281.9	281.9	279.5
65°	256.8	256.8	253.8	255.0	252.6
67.5°	229.3	228.7	227.0	226.4	227.0
70°	199.5	200.1	198.9	198.9	199.5
72.5°	172.6	172.0	171.4	171.4	172.6
75°	145.7	145.1	143.9	143.9	145.1
77.5°	121.2	118.3	117.7	118.9	117.1
80°	96.8	92.6	92.0	91.4	91.4
82.5°	68.1	66.3	66.9	66.3	67.5
85°	43.0	42.4	41.8	41.8	42.4
87.5°	20.3	19.1	19.1	18.5	18.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)