

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: P292850

Luminaire Tested: **22GR-LD5-20-FGW080-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292850  
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-LD5-20-FGW080-UNV-L92765-W2A1-U-4500K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH FGW080 LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1573.0 lumens  
Efficiency: N/A  
Efficacy: 100.1 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

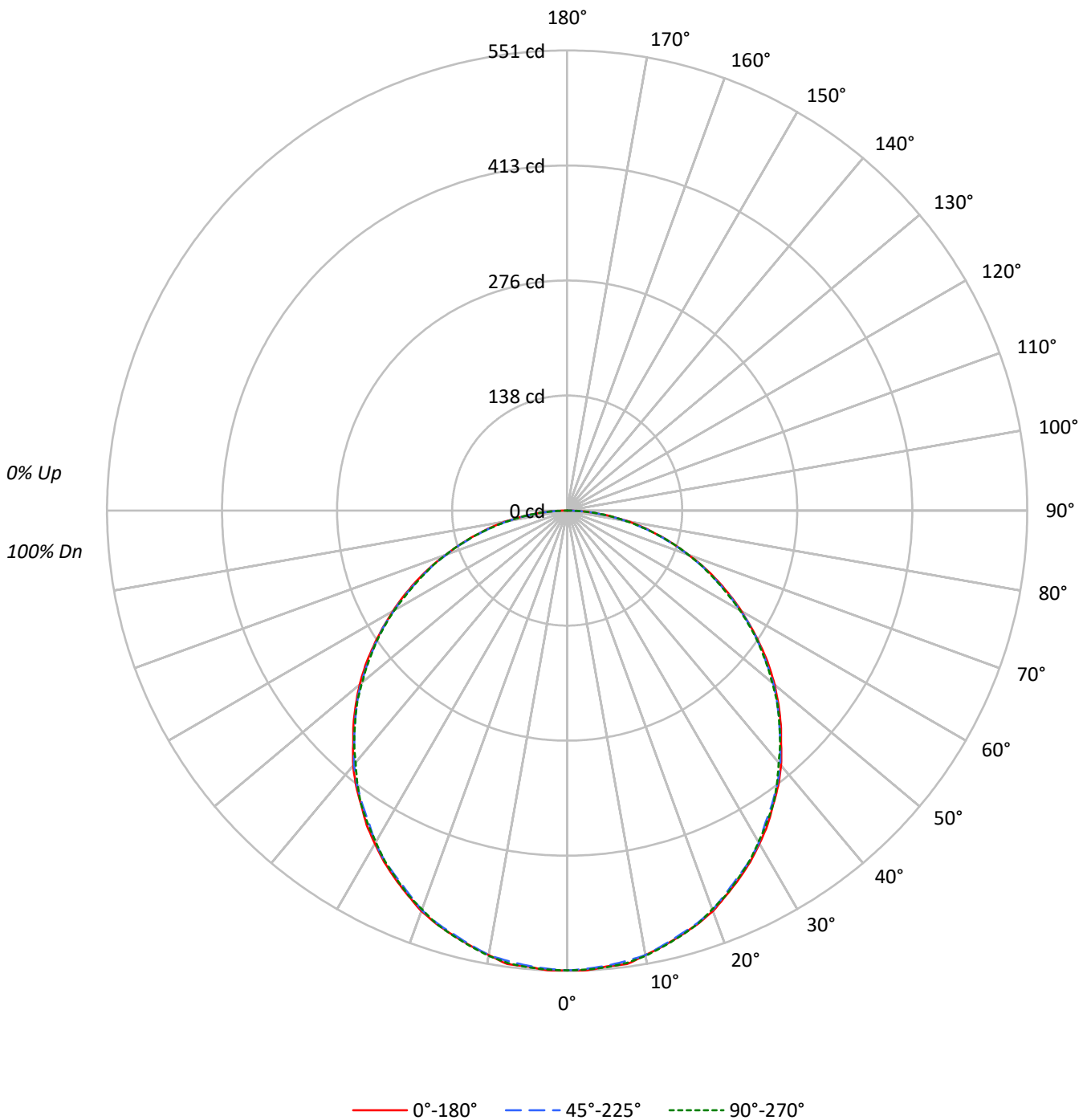
Input Watts (W): 15.717  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1482	1482	1482
5°	1480	1477	1482
10°	1477	1477	1479
15°	1467	1463	1468
20°	1462	1458	1455
25°	1445	1437	1441
30°	1431	1427	1424
35°	1413	1407	1413
40°	1400	1394	1384
45°	1376	1367	1367
50°	1357	1350	1342
55°	1328	1320	1317
60°	1298	1290	1285
65°	1265	1250	1244
70°	1214	1210	1214
75°	1172	1157	1167
80°	1159	1102	1096
85°	1028	997	1013



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	52.1	3.3
10°-20°	148.6	9.4
20°-30°	223.8	14.2
30°-40°	268.5	17.1
40°-50°	277.9	17.7
50°-60°	251.8	16.0
60°-70°	195.2	12.4
70°-80°	118.5	7.5
80°-90°	36.7	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°	424.5	27.0
0°-40°	693.0	44.1
0°-60°	1222.7	77.7
0°-90°	1573.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1573.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	551	551	551	551	551	
5°	548	548	547	548	549	52
15°	526	526	525	528	527	149
25°	487	486	484	486	485	224
35°	430	430	428	429	430	270
45°	362	361	359	359	359	279
55°	283	283	281	281	281	253
65°	199	199	196	197	195	196
75°	113	112	111	111	112	120
85°	33	33	32	32	33	38
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	550.6	550.6	550.6	550.6	550.6
2.5°	551.0	548.7	549.2	550.1	550.1
5°	547.8	547.8	546.9	548.3	548.7
7.5°	547.8	545.5	544.1	545.5	546.4
10°	540.4	539.5	540.4	539.9	541.3
12.5°	533.9	533.0	533.0	534.4	534.4
15°	526.5	526.5	525.2	527.5	527.0
17.5°	519.2	519.2	518.2	518.2	519.2
20°	510.4	508.1	509.0	508.5	508.1
22.5°	498.4	497.0	496.1	497.4	497.9
25°	486.8	485.9	484.1	485.9	485.4
27.5°	474.4	473.4	473.0	472.0	473.0
30°	460.5	459.6	459.1	458.2	458.2
32.5°	446.6	444.8	442.5	444.8	444.3
35°	430.0	430.0	428.2	428.6	430.0
37.5°	415.2	414.3	413.4	412.0	412.5
40°	398.6	397.2	396.8	395.8	394.0
42.5°	379.2	379.2	377.4	377.8	377.4
45°	361.7	361.2	359.3	359.3	359.3
47.5°	343.2	342.7	341.3	340.4	341.3
50°	324.2	322.4	322.4	321.0	320.5
52.5°	304.4	303.0	301.1	301.6	300.7
55°	283.1	282.7	281.3	280.8	280.8
57.5°	261.9	262.3	261.4	259.6	260.0
60°	241.1	240.6	239.7	238.8	238.8
62.5°	219.9	219.9	218.0	218.0	216.2
65°	198.6	198.6	196.3	197.2	195.4
67.5°	177.4	176.9	175.5	175.1	175.5
70°	154.3	154.7	153.8	153.8	154.3
72.5°	133.5	133.0	132.6	132.6	133.5
75°	112.7	112.2	111.3	111.3	112.2
77.5°	93.8	91.5	91.0	91.9	90.5
80°	74.8	71.6	71.1	70.7	70.7
82.5°	52.7	51.3	51.7	51.3	52.2
85°	33.3	32.8	32.3	32.3	32.8
87.5°	15.7	14.8	14.8	14.3	14.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)