

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: P292755

Luminaire Tested: **22GR-LD5-20-FGW080-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292755
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-L82765-W2A1-U-5700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1810.0 lumens
Efficiency: N/A
Efficacy: 113.8 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

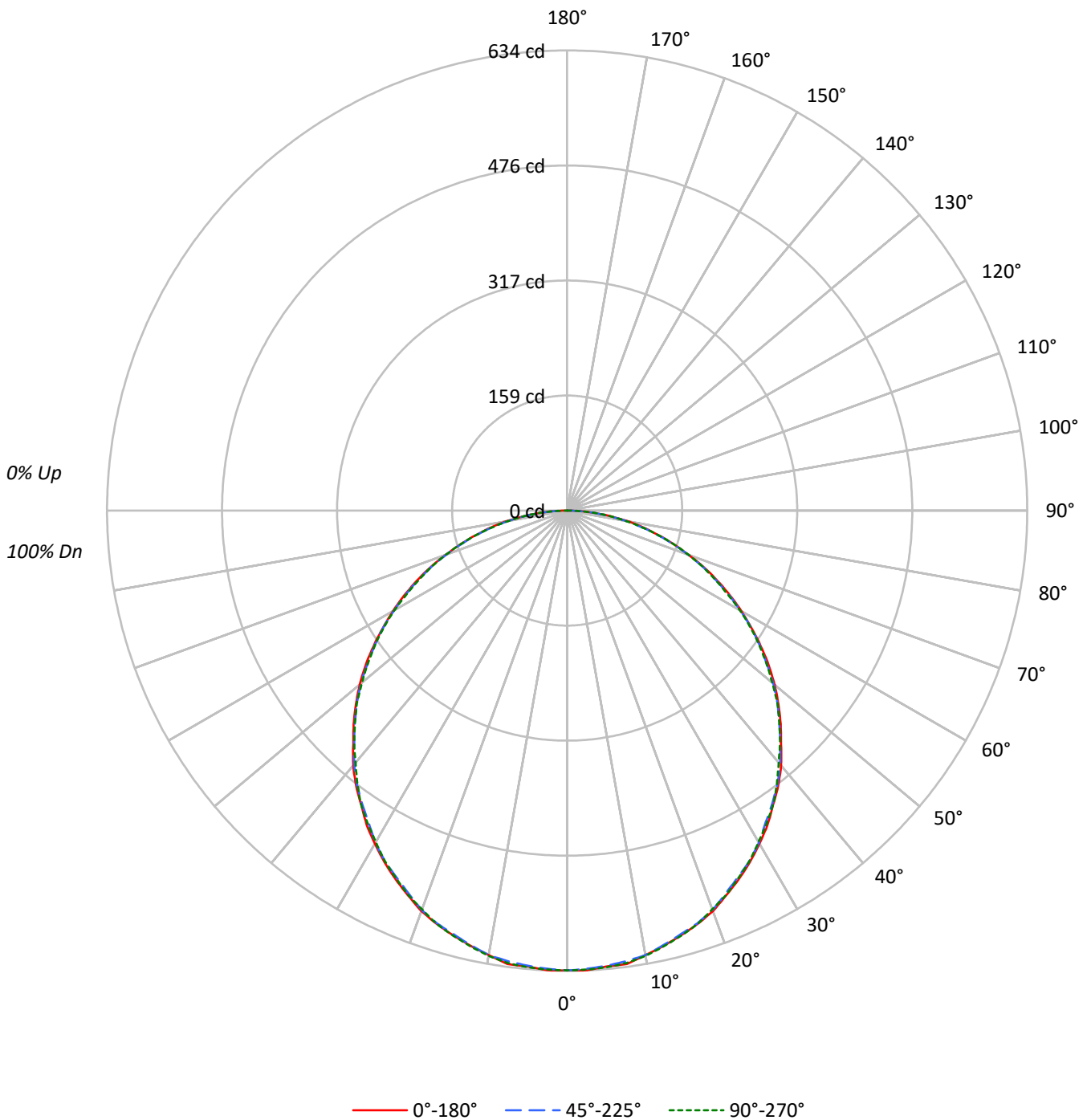
Input Watts (W): 15.903
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P292755

CATALOG NUMBER: 22GR-LD5-20-FGW080-UNV-L82765-W2A1-U-5700K

Luminous Intensity Polar Plot





TEST NUMBER: P292755

CATALOG NUMBER: 22GR-LD5-20-FGW080-UNV-L82765-W2A1-U-5700K

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°	1705	1705	1705
5°	1703	1700	1706
10°	1699	1699	1702
15°	1688	1684	1689
20°	1682	1677	1674
25°	1663	1654	1659
30°	1647	1642	1638
35°	1625	1619	1625
40°	1611	1604	1592
45°	1584	1574	1574
50°	1562	1553	1544
55°	1529	1519	1516
60°	1493	1484	1479
65°	1455	1438	1431
70°	1397	1393	1397
75°	1349	1332	1342
80°	1334	1268	1260
85°	1183	1149	1164



TEST NUMBER: P292755

CATALOG NUMBER: 22GR-LD5-20-FGW080-UNV-L82765-W2A1-U-5700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.9	3.3
10°-20°	171.0	9.4
20°-30°	257.5	14.2
30°-40°	309.0	17.1
40°-50°	319.7	17.7
50°-60°	289.7	16.0
60°-70°	224.6	12.4
70°-80°	136.3	7.5
80°-90°	42.2	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°	488.4	27.0
0°-40°	797.4	44.1
0°-60°	1406.9	77.7
0°-90°	1810.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1810.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	634	634	634	634	634	
5°	630	630	629	631	631	60
15°	606	606	604	607	606	171
25°	560	559	557	559	559	258
35°	495	495	493	493	495	310
45°	416	416	414	414	414	321
55°	326	325	324	323	323	291
65°	228	228	226	227	225	226
75°	130	129	128	128	129	138
85°	38	38	37	37	38	44
90°	0	0	0	0	0	



TEST NUMBER: P292755

CATALOG NUMBER: 22GR-LD5-20-FGW080-UNV-L82765-W2A1-U-5700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	633.5	633.5	633.5	633.5	633.5
2.5°	634.0	631.4	631.9	633.0	633.0
5°	630.3	630.3	629.3	630.9	631.4
7.5°	630.3	627.7	626.1	627.7	628.7
10°	621.8	620.8	621.8	621.3	622.9
12.5°	614.4	613.3	613.3	614.9	614.9
15°	605.9	605.9	604.3	606.9	606.4
17.5°	597.4	597.4	596.3	596.3	597.4
20°	587.3	584.6	585.7	585.2	584.6
22.5°	573.5	571.9	570.8	572.4	572.9
25°	560.2	559.1	557.0	559.1	558.6
27.5°	545.8	544.8	544.2	543.2	544.2
30°	529.9	528.8	528.3	527.2	527.2
32.5°	513.9	511.8	509.2	511.8	511.3
35°	494.8	494.8	492.7	493.2	494.8
37.5°	477.8	476.7	475.7	474.1	474.6
40°	458.7	457.1	456.5	455.5	453.3
42.5°	436.3	436.3	434.2	434.7	434.2
45°	416.1	415.6	413.5	413.5	413.5
47.5°	394.9	394.4	392.8	391.7	392.8
50°	373.1	371.0	371.0	369.4	368.8
52.5°	350.2	348.6	346.5	347.1	346.0
55°	325.8	325.3	323.7	323.1	323.1
57.5°	301.3	301.9	300.8	298.7	299.2
60°	277.4	276.9	275.8	274.8	274.8
62.5°	253.0	253.0	250.9	250.9	248.7
65°	228.5	228.5	225.9	226.9	224.8
67.5°	204.1	203.6	202.0	201.4	202.0
70°	177.5	178.0	177.0	177.0	177.5
72.5°	153.6	153.1	152.5	152.5	153.6
75°	129.7	129.1	128.1	128.1	129.1
77.5°	107.9	105.2	104.7	105.8	104.2
80°	86.1	82.4	81.8	81.3	81.3
82.5°	60.6	59.0	59.5	59.0	60.1
85°	38.3	37.7	37.2	37.2	37.7
87.5°	18.1	17.0	17.0	16.5	16.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)