

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: P292751

Luminaire Tested: **22GR-LD5-20-FGW080-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292751
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-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: 1733.0 lumens
Efficiency: N/A
Efficacy: 110.9 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

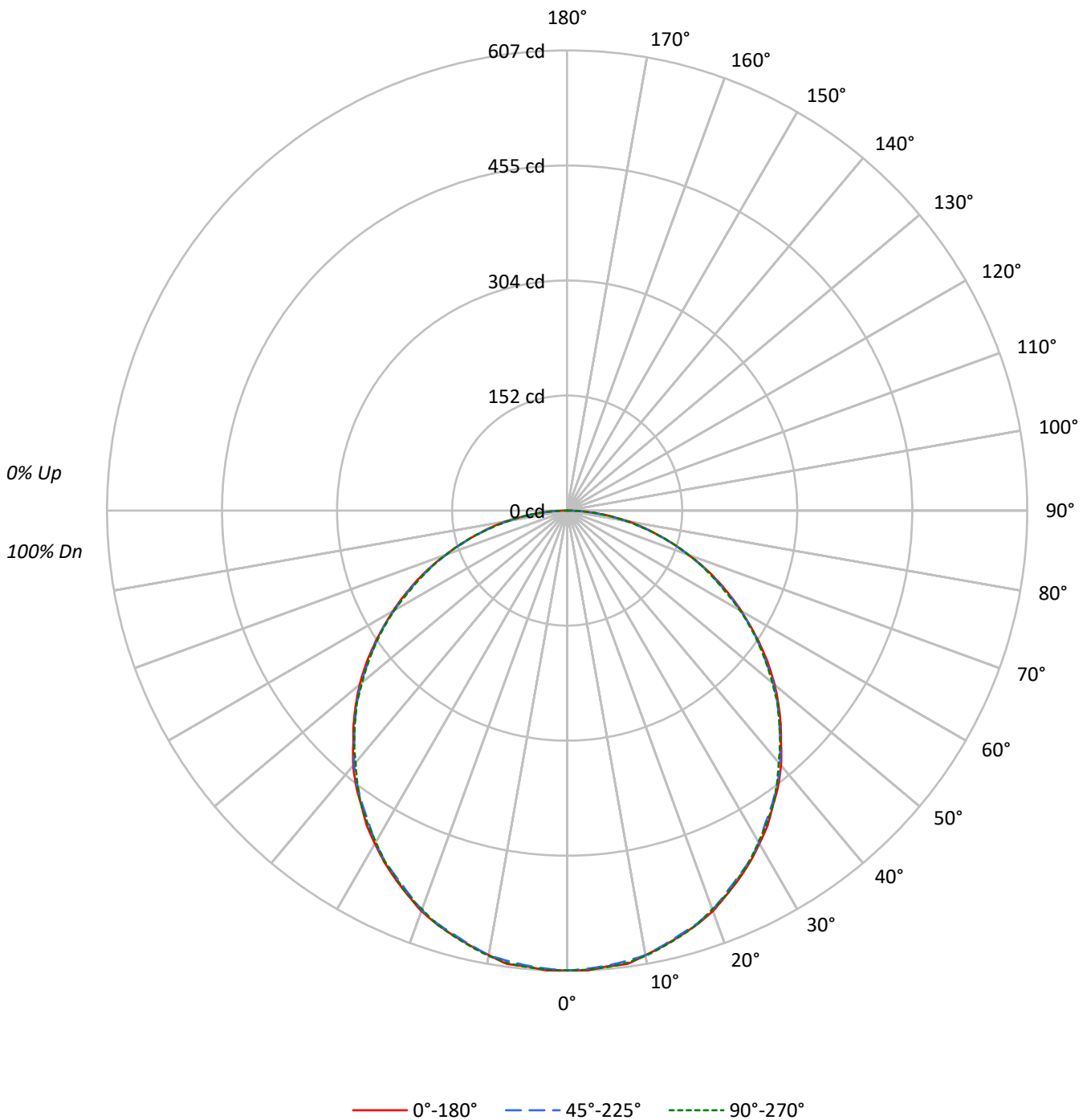
Input Watts (W): 15.624
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P292751

CATALOG NUMBER: 22GR-LD5-20-FGW080-UNV-L82765-W2A1-U-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P292751

CATALOG NUMBER: 22GR-LD5-20-FGW080-UNV-L82765-W2A1-U-4000K

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°	1632	1632	1632
5°	1630	1628	1633
10°	1627	1627	1630
15°	1616	1612	1617
20°	1610	1606	1603
25°	1592	1583	1588
30°	1576	1572	1569
35°	1556	1550	1556
40°	1542	1535	1525
45°	1516	1507	1507
50°	1495	1487	1479
55°	1463	1454	1452
60°	1429	1421	1416
65°	1393	1377	1370
70°	1338	1334	1338
75°	1291	1275	1286
80°	1277	1215	1207
85°	1130	1099	1115



TEST NUMBER: P292751

CATALOG NUMBER: 22GR-LD5-20-FGW080-UNV-L82765-W2A1-U-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.4	3.3
10°-20°	163.7	9.4
20°-30°	246.5	14.2
30°-40°	295.9	17.1
40°-50°	306.1	17.7
50°-60°	277.4	16.0
60°-70°	215.0	12.4
70°-80°	130.5	7.5
80°-90°	40.4	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°	467.6	27.0
0°-40°	763.5	44.1
0°-60°	1347.0	77.7
0°-90°	1733.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1733.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	607	607	607	607	607	
5°	604	604	602	604	604	57
15°	580	580	579	581	581	164
25°	536	535	533	535	535	247
35°	474	474	472	472	474	297
45°	398	398	396	396	396	307
55°	312	311	310	309	309	279
65°	219	219	216	217	215	216
75°	124	124	123	123	124	132
85°	37	36	36	36	36	42
90°	0	0	0	0	0	



TEST NUMBER: P292751

CATALOG NUMBER: 22GR-LD5-20-FGW080-UNV-L82765-W2A1-U-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	606.6	606.6	606.6	606.6	606.6
2.5°	607.1	604.5	605.0	606.1	606.1
5°	603.5	603.5	602.5	604.0	604.5
7.5°	603.5	601.0	599.4	601.0	602.0
10°	595.4	594.4	595.4	594.9	596.4
12.5°	588.2	587.2	587.2	588.8	588.8
15°	580.1	580.1	578.6	581.1	580.6
17.5°	572.0	572.0	570.9	570.9	572.0
20°	562.3	559.8	560.8	560.3	559.8
22.5°	549.1	547.5	546.5	548.0	548.6
25°	536.3	535.3	533.3	535.3	534.8
27.5°	522.6	521.6	521.1	520.1	521.1
30°	507.3	506.3	505.8	504.8	504.8
32.5°	492.1	490.0	487.5	490.0	489.5
35°	473.8	473.8	471.7	472.2	473.8
37.5°	457.5	456.5	455.4	453.9	454.4
40°	439.1	437.6	437.1	436.1	434.1
42.5°	417.8	417.8	415.7	416.3	415.7
45°	398.4	397.9	395.9	395.9	395.9
47.5°	378.1	377.6	376.1	375.0	376.1
50°	357.2	355.2	355.2	353.7	353.2
52.5°	335.3	333.8	331.8	332.3	331.3
55°	311.9	311.4	309.9	309.4	309.4
57.5°	288.5	289.0	288.0	286.0	286.5
60°	265.6	265.1	264.1	263.1	263.1
62.5°	242.2	242.2	240.2	240.2	238.1
65°	218.8	218.8	216.3	217.3	215.2
67.5°	195.4	194.9	193.4	192.9	193.4
70°	170.0	170.5	169.5	169.5	170.0
72.5°	147.1	146.6	146.0	146.0	147.1
75°	124.2	123.7	122.6	122.6	123.7
77.5°	103.3	100.8	100.2	101.3	99.7
80°	82.4	78.9	78.4	77.9	77.9
82.5°	58.0	56.5	57.0	56.5	57.5
85°	36.6	36.1	35.6	35.6	36.1
87.5°	17.3	16.3	16.3	15.8	15.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)