

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: P476129

Luminaire Tested: **22GR-LD5-60-FGW080-UNV-L830-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476129
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-60-FGW080-UNV-L830-CD1-U
Description: GR 2'X2' LED TROFFER w/ FGW080 LENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4897.7 lumens
Efficiency: N/A
Efficacy: 110.3 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

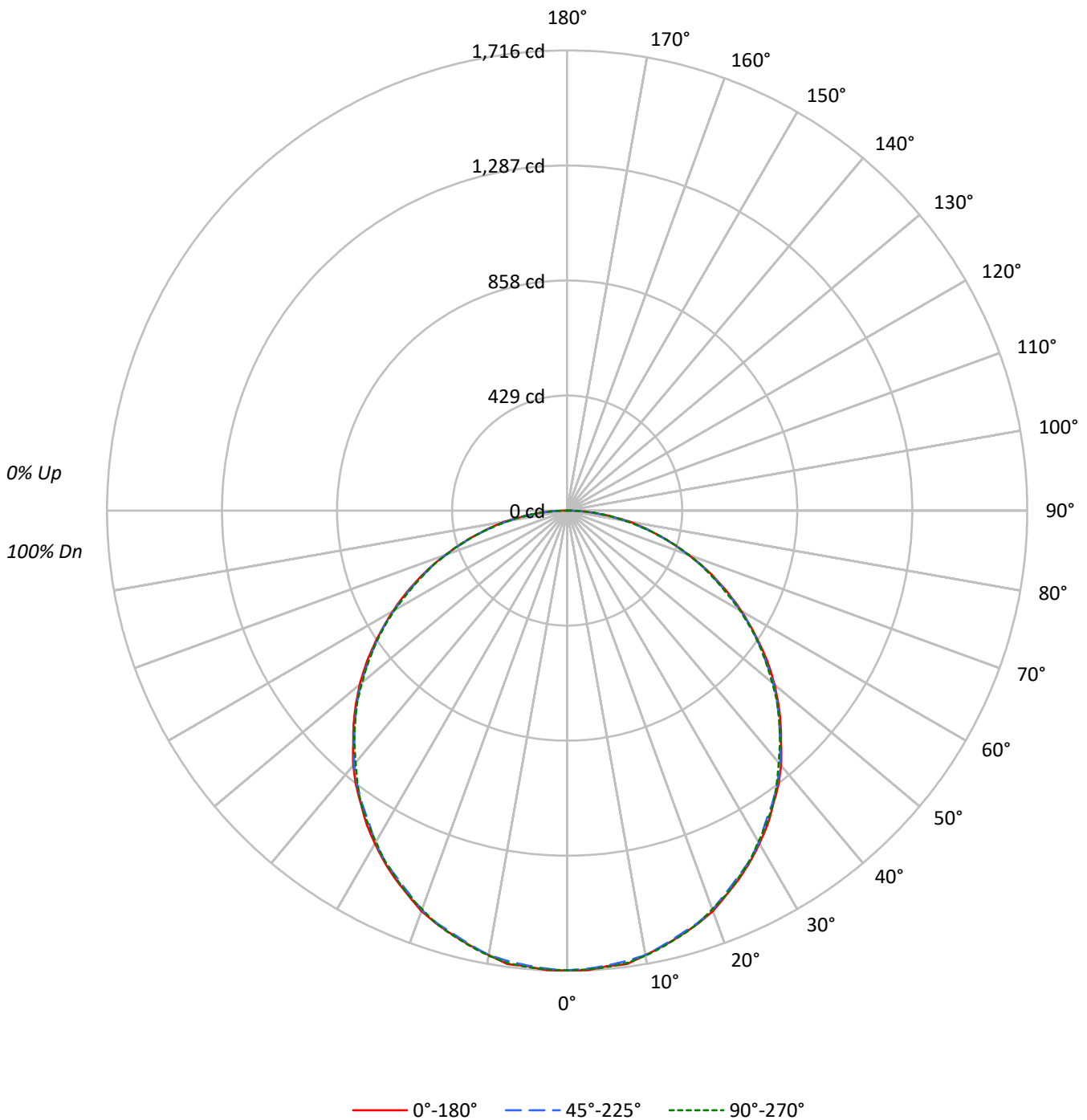
Input Watts (W): 44.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P476129

CATALOG NUMBER: 22GR-LD5-60-FGW080-UNV-L830-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P476129

CATALOG NUMBER: 22GR-LD5-60-FGW080-UNV-L830-CD1-U

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°	4613	4613	4613
5°	4608	4600	4615
10°	4598	4598	4606
15°	4567	4556	4572
20°	4551	4538	4530
25°	4500	4475	4488
30°	4455	4442	4433
35°	4399	4380	4399
40°	4360	4340	4310
45°	4285	4258	4258
50°	4226	4202	4178
55°	4137	4109	4103
60°	4040	4017	4001
65°	3936	3890	3873
70°	3780	3769	3780
75°	3648	3603	3633
80°	3608	3429	3408
85°	3199	3112	3155



TEST NUMBER: P476129

CATALOG NUMBER: 22GR-LD5-60-FGW080-UNV-L830-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.2	3.3
10°-20°	462.7	9.4
20°-30°	696.7	14.2
30°-40°	836.1	17.1
40°-50°	865.1	17.7
50°-60°	784.0	16.0
60°-70°	607.7	12.4
70°-80°	368.9	7.5
80°-90°	114.2	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°	1321.6	27.0
0°-40°	2157.7	44.1
0°-60°	3806.9	77.7
0°-90°	4897.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4897.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1714	1714	1714	1714	1714	
5°	1706	1706	1703	1707	1709	162
15°	1640	1640	1635	1642	1641	463
25°	1516	1513	1507	1513	1511	699
35°	1339	1339	1333	1335	1339	839
45°	1126	1125	1119	1119	1119	869
55°	882	880	876	874	874	788
65°	618	618	611	614	608	611
75°	351	349	346	346	349	373
85°	104	102	101	101	102	118
90°	0	0	0	0	0	



TEST NUMBER: P476129

CATALOG NUMBER: 22GR-LD5-60-FGW080-UNV-L830-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1714.4	1714.4	1714.4	1714.4	1714.4
2.5°	1715.8	1708.6	1710.1	1712.9	1712.9
5°	1705.7	1705.7	1702.9	1707.2	1708.6
7.5°	1705.7	1698.5	1694.2	1698.5	1701.4
10°	1682.7	1679.8	1682.7	1681.3	1685.6
12.5°	1662.6	1659.7	1659.7	1664.0	1664.0
15°	1639.5	1639.5	1635.2	1642.4	1641.0
17.5°	1616.5	1616.5	1613.6	1613.6	1616.5
20°	1589.1	1582.0	1584.8	1583.4	1582.0
22.5°	1551.7	1547.4	1544.5	1548.8	1550.3
25°	1515.7	1512.9	1507.1	1512.9	1511.4
27.5°	1476.9	1474.0	1472.6	1469.7	1472.6
30°	1433.7	1430.8	1429.4	1426.5	1426.5
32.5°	1390.5	1384.7	1377.5	1384.7	1383.3
35°	1339.0	1339.0	1333.3	1334.7	1339.0
37.5°	1293.0	1290.1	1287.2	1282.9	1284.3
40°	1241.2	1236.8	1235.4	1232.5	1226.8
42.5°	1180.7	1180.7	1174.9	1176.4	1174.9
45°	1126.0	1124.6	1118.8	1118.8	1118.8
47.5°	1068.4	1067.0	1062.7	1059.8	1062.7
50°	1009.4	1003.7	1003.7	999.3	997.9
52.5°	947.9	943.6	937.8	939.2	936.4
55°	881.7	880.2	875.9	874.5	874.5
57.5°	815.4	816.9	814.0	808.2	809.7
60°	750.7	749.2	746.4	743.5	743.5
62.5°	684.5	684.5	678.7	678.7	672.9
65°	618.2	618.2	611.0	613.9	608.2
67.5°	552.4	550.9	546.6	545.2	546.6
70°	480.4	481.9	479.0	479.0	480.4
72.5°	415.6	414.2	412.8	412.8	415.6
75°	350.9	349.4	346.5	346.5	349.4
77.5°	291.8	284.7	283.2	286.1	281.8
80°	232.8	222.8	221.3	219.9	219.9
82.5°	164.1	159.8	161.2	159.8	162.7
85°	103.6	102.2	100.8	100.8	102.2
87.5°	48.9	46.1	46.1	44.6	44.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)