

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: P476141

Luminaire Tested: **22GR-LD5-60-FGW080-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476141
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-L835-CD1-U
Description: GR 2'X2' LED TROFFER w/ FGW080 LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5075.3 lumens
Efficiency: N/A
Efficacy: 114.3 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

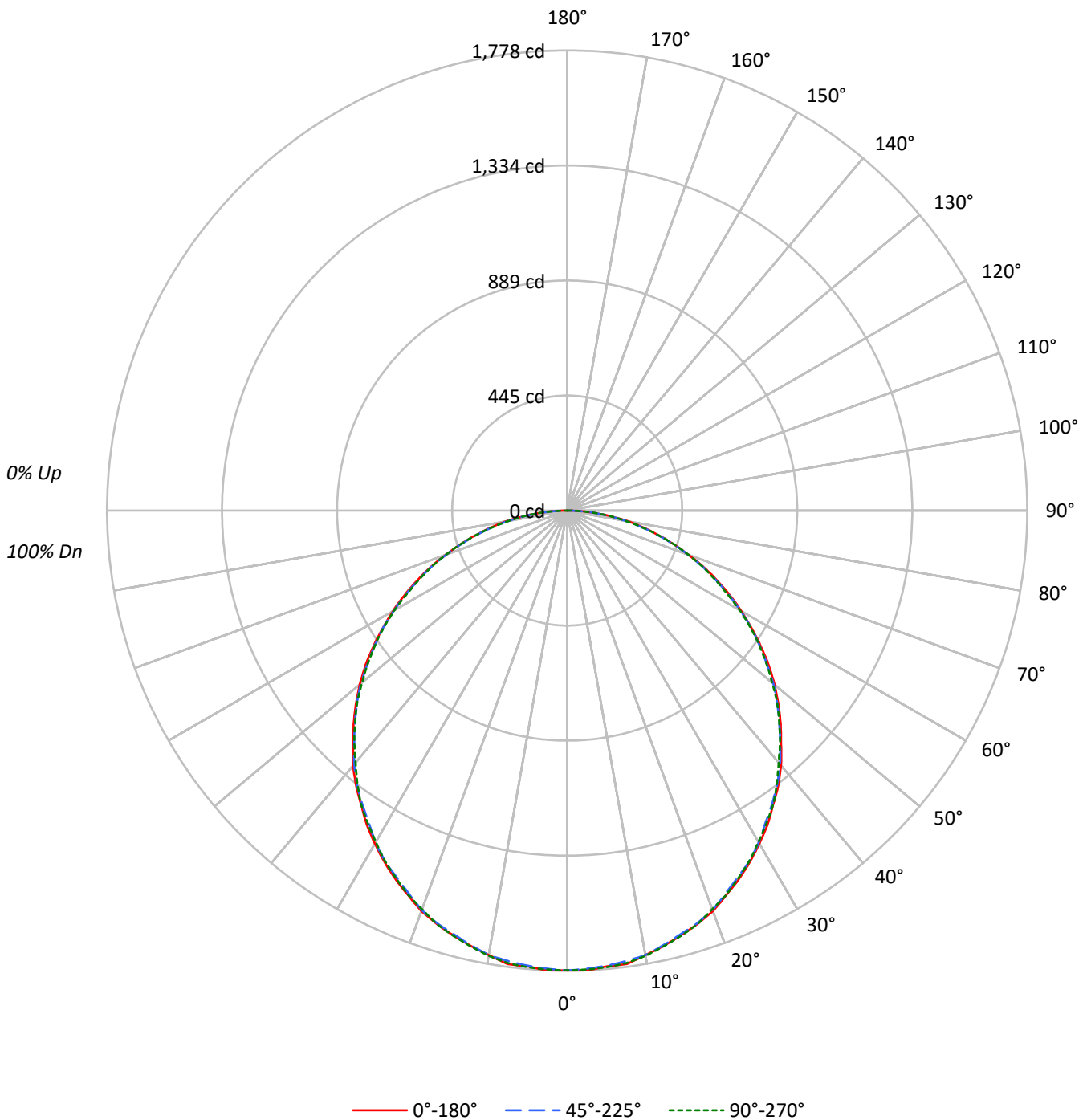
Input Watts (W): 44.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P476141

CATALOG NUMBER: 22GR-LD5-60-FGW080-UNV-L835-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P476141

CATALOG NUMBER: 22GR-LD5-60-FGW080-UNV-L835-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°	4781	4781	4781
5°	4775	4767	4783
10°	4765	4765	4773
15°	4733	4721	4737
20°	4716	4703	4694
25°	4664	4637	4650
30°	4616	4602	4593
35°	4558	4539	4558
40°	4518	4497	4466
45°	4440	4412	4412
50°	4379	4354	4329
55°	4286	4259	4252
60°	4187	4162	4146
65°	4080	4032	4013
70°	3917	3905	3917
75°	3780	3734	3765
80°	3739	3553	3532
85°	3316	3223	3270



TEST NUMBER: P476141

CATALOG NUMBER: 22GR-LD5-60-FGW080-UNV-L835-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.1	3.3
10°-20°	479.5	9.4
20°-30°	722.0	14.2
30°-40°	866.5	17.1
40°-50°	896.5	17.7
50°-60°	812.5	16.0
60°-70°	629.7	12.4
70°-80°	382.2	7.5
80°-90°	118.4	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°	1369.5	27.0
0°-40°	2236.0	44.1
0°-60°	3945.0	77.7
0°-90°	5075.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5075.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1777	1777	1777	1777	1777	
5°	1768	1768	1765	1769	1771	168
15°	1699	1699	1694	1702	1700	480
25°	1571	1568	1562	1568	1566	724
35°	1388	1388	1382	1383	1388	870
45°	1167	1165	1159	1159	1159	900
55°	914	912	908	906	906	817
65°	641	641	633	636	630	634
75°	364	362	359	359	362	387
85°	107	106	104	104	106	122
90°	0	0	0	0	0	



TEST NUMBER: P476141

CATALOG NUMBER: 22GR-LD5-60-FGW080-UNV-L835-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1776.6	1776.6	1776.6	1776.6	1776.6
2.5°	1778.1	1770.6	1772.1	1775.1	1775.1
5°	1767.6	1767.6	1764.6	1769.1	1770.6
7.5°	1767.6	1760.2	1755.7	1760.2	1763.1
10°	1743.7	1740.8	1743.7	1742.3	1746.7
12.5°	1722.9	1719.9	1719.9	1724.4	1724.4
15°	1699.0	1699.0	1694.5	1702.0	1700.5
17.5°	1675.1	1675.1	1672.1	1672.1	1675.1
20°	1646.8	1639.3	1642.3	1640.8	1639.3
22.5°	1608.0	1603.5	1600.5	1605.0	1606.5
25°	1570.7	1567.7	1561.8	1567.7	1566.2
27.5°	1530.4	1527.5	1526.0	1523.0	1526.0
30°	1485.7	1482.7	1481.2	1478.2	1478.2
32.5°	1440.9	1435.0	1427.5	1435.0	1433.5
35°	1387.6	1387.6	1381.6	1383.1	1387.6
37.5°	1339.9	1336.9	1333.9	1329.4	1330.9
40°	1286.2	1281.7	1280.2	1277.2	1271.3
42.5°	1223.5	1223.5	1217.6	1219.1	1217.6
45°	1166.8	1165.4	1159.4	1159.4	1159.4
47.5°	1107.2	1105.7	1101.2	1098.2	1101.2
50°	1046.0	1040.1	1040.1	1035.6	1034.1
52.5°	982.3	977.8	971.8	973.3	970.3
55°	913.6	912.1	907.7	906.2	906.2
57.5°	845.0	846.5	843.5	837.6	839.1
60°	777.9	776.4	773.4	770.4	770.4
62.5°	709.3	709.3	703.3	703.3	697.3
65°	640.7	640.7	633.2	636.2	630.2
67.5°	572.4	570.9	566.5	565.0	566.5
70°	497.8	499.3	496.3	496.3	497.8
72.5°	430.7	429.2	427.7	427.7	430.7
75°	363.6	362.1	359.1	359.1	362.1
77.5°	302.4	295.0	293.5	296.5	292.0
80°	241.3	230.8	229.3	227.9	227.9
82.5°	170.0	165.6	167.1	165.6	168.6
85°	107.4	105.9	104.4	104.4	105.9
87.5°	50.7	47.7	47.7	46.2	46.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)