

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: P476133

Luminaire Tested: **22GR-LD5-20-FGW080-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476133
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-20-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: 1738.2 lumens
Efficiency: N/A
Efficacy: 115.1 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

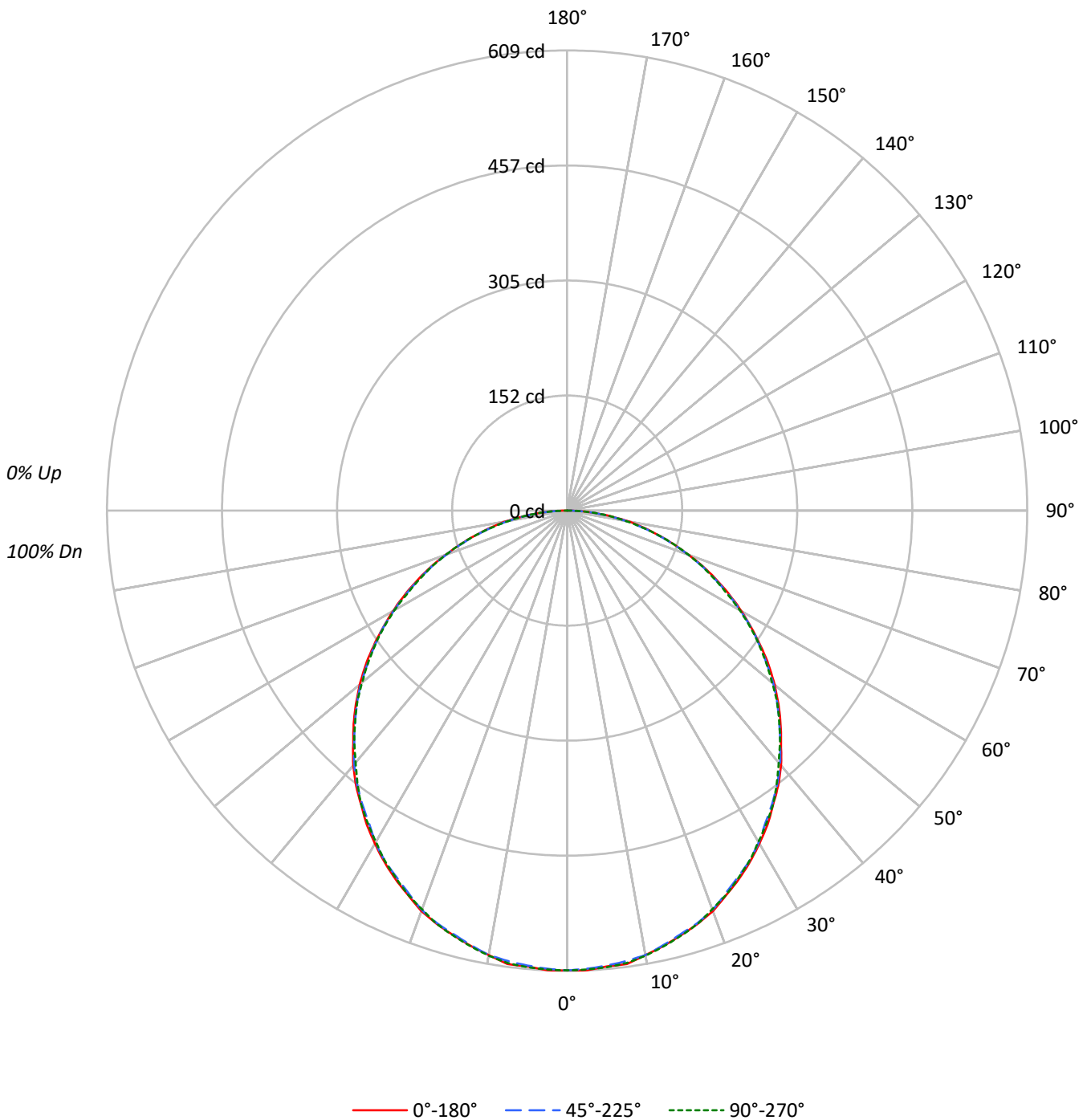
Input Watts (W): 15.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1637	1637	1637
5°	1635	1633	1638
10°	1632	1632	1635
15°	1621	1617	1623
20°	1615	1611	1608
25°	1597	1588	1593
30°	1581	1576	1573
35°	1561	1554	1561
40°	1547	1540	1529
45°	1521	1511	1511
50°	1500	1491	1483
55°	1468	1459	1456
60°	1434	1426	1420
65°	1397	1381	1374
70°	1341	1338	1341
75°	1294	1279	1289
80°	1280	1216	1209
85°	1136	1105	1121



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.6	3.3
10°-20°	164.2	9.4
20°-30°	247.3	14.2
30°-40°	296.8	17.1
40°-50°	307.0	17.7
50°-60°	278.3	16.0
60°-70°	215.7	12.4
70°-80°	130.9	7.5
80°-90°	40.5	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°	469.1	27.0
0°-40°	765.8	44.1
0°-60°	1351.1	77.7
0°-90°	1738.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1738.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	608	608	608	608	608	
5°	605	605	604	606	606	58
15°	582	582	580	583	582	164
25°	538	537	535	537	536	248
35°	475	475	473	474	475	298
45°	400	399	397	397	397	308
55°	313	312	311	310	310	280
65°	219	219	217	218	216	217
75°	124	124	123	123	124	132
85°	37	36	36	36	36	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	608.5	608.5	608.5	608.5	608.5
2.5°	609.0	606.4	606.9	607.9	607.9
5°	605.4	605.4	604.4	605.9	606.4
7.5°	605.4	602.8	601.3	602.8	603.9
10°	597.2	596.2	597.2	596.7	598.2
12.5°	590.1	589.0	589.0	590.6	590.6
15°	581.9	581.9	580.4	582.9	582.4
17.5°	573.7	573.7	572.7	572.7	573.7
20°	564.0	561.5	562.5	562.0	561.5
22.5°	550.7	549.2	548.2	549.7	550.2
25°	538.0	536.9	534.9	536.9	536.4
27.5°	524.2	523.1	522.6	521.6	522.6
30°	508.8	507.8	507.3	506.3	506.3
32.5°	493.5	491.5	488.9	491.5	491.0
35°	475.2	475.2	473.2	473.7	475.2
37.5°	458.9	457.9	456.8	455.3	455.8
40°	440.5	439.0	438.5	437.4	435.4
42.5°	419.0	419.0	417.0	417.5	417.0
45°	399.6	399.1	397.1	397.1	397.1
47.5°	379.2	378.7	377.2	376.1	377.2
50°	358.3	356.2	356.2	354.7	354.2
52.5°	336.4	334.9	332.8	333.3	332.3
55°	312.9	312.4	310.9	310.4	310.4
57.5°	289.4	289.9	288.9	286.9	287.4
60°	266.4	265.9	264.9	263.9	263.9
62.5°	242.9	242.9	240.9	240.9	238.8
65°	219.4	219.4	216.9	217.9	215.8
67.5°	196.0	195.5	194.0	193.5	194.0
70°	170.5	171.0	170.0	170.0	170.5
72.5°	147.5	147.0	146.5	146.5	147.5
75°	124.5	124.0	123.0	123.0	124.0
77.5°	103.6	101.0	100.5	101.5	100.0
80°	82.6	79.1	78.5	78.0	78.0
82.5°	58.2	56.7	57.2	56.7	57.7
85°	36.8	36.3	35.8	35.8	36.3
87.5°	17.4	16.3	16.3	15.8	15.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)