

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: P292714

Luminaire Tested: **22GR-LD5-20-FGW080-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292714
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-L83050-W2A1-U-3500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1736.0 lumens
Efficiency: N/A
Efficacy: 112.4 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

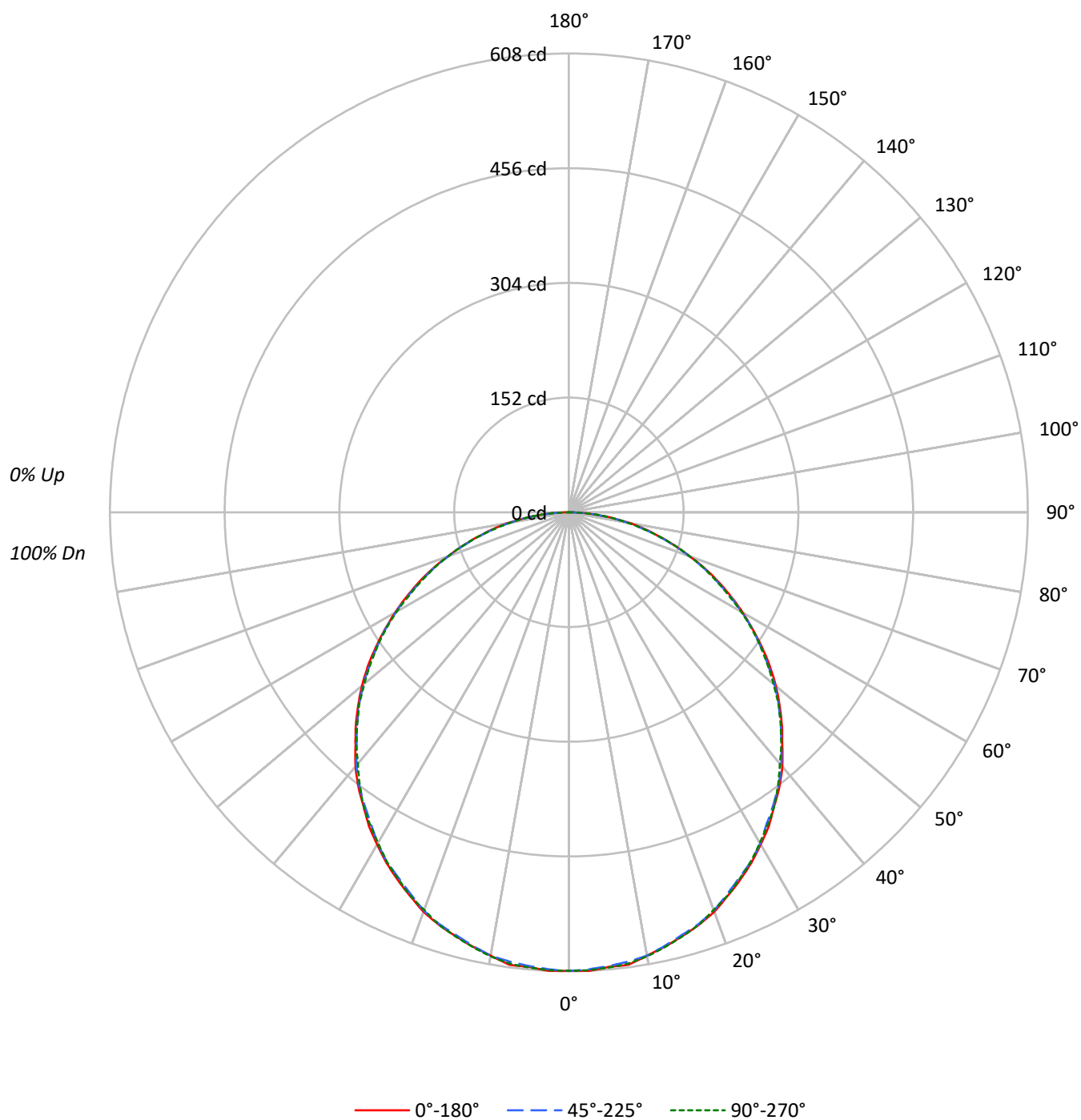
Input Watts (W): 15.438
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
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°	1635	1635	1635
5°	1633	1630	1636
10°	1630	1630	1632
15°	1619	1615	1620
20°	1613	1609	1606
25°	1595	1586	1591
30°	1579	1574	1571
35°	1559	1552	1559
40°	1545	1538	1527
45°	1519	1509	1509
50°	1498	1490	1481
55°	1466	1456	1454
60°	1432	1424	1418
65°	1396	1379	1373
70°	1340	1335	1340
75°	1293	1277	1288
80°	1280	1216	1209
85°	1133	1102	1118



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.5	3.3
10°-20°	164.0	9.4
20°-30°	247.0	14.2
30°-40°	296.4	17.1
40°-50°	306.7	17.7
50°-60°	277.9	16.0
60°-70°	215.4	12.4
70°-80°	130.8	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°	468.5	27.0
0°-40°	764.8	44.1
0°-60°	1349.4	77.7
0°-90°	1736.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1736.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	608	608	608	608	608	
5°	605	605	604	605	606	58
15°	581	581	580	582	582	164
25°	537	536	534	536	536	248
35°	475	475	472	473	475	298
45°	399	399	397	397	397	308
55°	312	312	310	310	310	279
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°	607.6	607.6	607.6	607.6	607.6
2.5°	608.1	605.6	606.1	607.1	607.1
5°	604.6	604.6	603.5	605.1	605.6
7.5°	604.6	602.0	600.5	602.0	603.0
10°	596.4	595.4	596.4	595.9	597.4
12.5°	589.3	588.2	588.2	589.8	589.8
15°	581.1	581.1	579.6	582.1	581.6
17.5°	573.0	573.0	571.9	571.9	573.0
20°	563.3	560.7	561.7	561.2	560.7
22.5°	550.0	548.5	547.5	549.0	549.5
25°	537.3	536.3	534.2	536.3	535.7
27.5°	523.5	522.5	522.0	521.0	522.0
30°	508.2	507.2	506.7	505.7	505.7
32.5°	492.9	490.9	488.3	490.9	490.4
35°	474.6	474.6	472.5	473.0	474.6
37.5°	458.3	457.2	456.2	454.7	455.2
40°	439.9	438.4	437.9	436.9	434.8
42.5°	418.5	418.5	416.5	417.0	416.5
45°	399.1	398.6	396.6	396.6	396.6
47.5°	378.7	378.2	376.7	375.7	376.7
50°	357.8	355.8	355.8	354.3	353.8
52.5°	335.9	334.4	332.4	332.9	331.8
55°	312.5	312.0	310.4	309.9	309.9
57.5°	289.0	289.5	288.5	286.5	287.0
60°	266.1	265.6	264.6	263.5	263.5
62.5°	242.6	242.6	240.6	240.6	238.6
65°	219.2	219.2	216.6	217.7	215.6
67.5°	195.7	195.2	193.7	193.2	193.7
70°	170.3	170.8	169.7	169.7	170.3
72.5°	147.3	146.8	146.3	146.3	147.3
75°	124.4	123.9	122.8	122.8	123.9
77.5°	103.5	100.9	100.4	101.4	99.9
80°	82.6	79.0	78.5	78.0	78.0
82.5°	58.1	56.6	57.1	56.6	57.6
85°	36.7	36.2	35.7	35.7	36.2
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)