

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: P292754

Luminaire Tested: **22GR-LD5-20-FGW080-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292754
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-5500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1806.0 lumens
Efficiency: N/A
Efficacy: 113.6 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

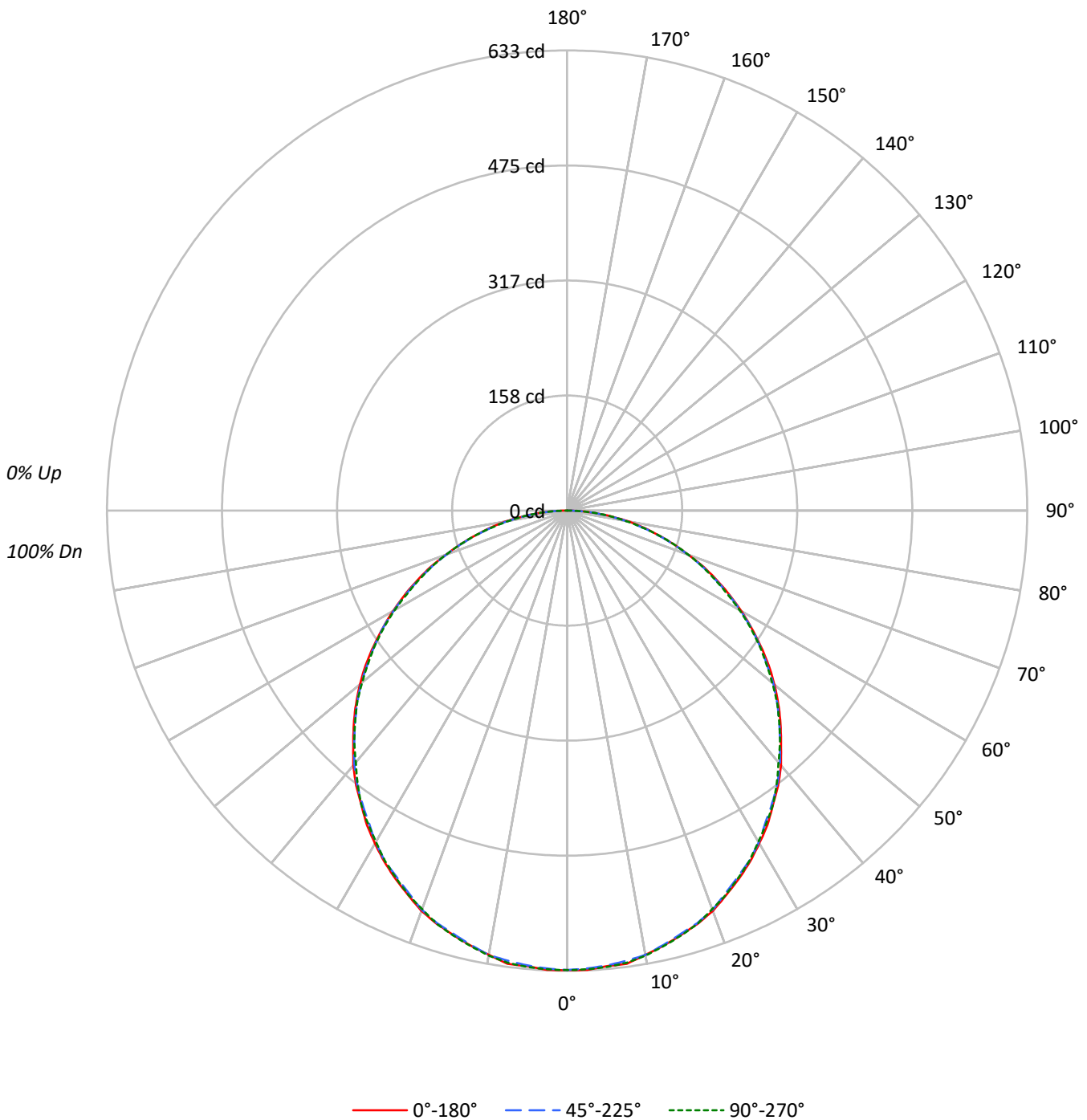
Input Watts (W): 15.903
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1701	1701	1701
5°	1699	1696	1702
10°	1696	1696	1698
15°	1684	1680	1686
20°	1678	1674	1670
25°	1659	1650	1655
30°	1643	1638	1635
35°	1622	1615	1622
40°	1607	1600	1589
45°	1580	1570	1570
50°	1559	1549	1541
55°	1525	1515	1513
60°	1490	1481	1476
65°	1452	1435	1428
70°	1393	1389	1393
75°	1345	1329	1340
80°	1331	1266	1257
85°	1179	1145	1164



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.8	3.3
10°-20°	170.6	9.4
20°-30°	256.9	14.2
30°-40°	308.3	17.1
40°-50°	319.0	17.7
50°-60°	289.1	16.0
60°-70°	224.1	12.4
70°-80°	136.0	7.5
80°-90°	42.1	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°	487.3	27.0
0°-40°	795.7	44.1
0°-60°	1403.8	77.7
0°-90°	1806.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1806.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	632	632	632	632	632	
5°	629	629	628	630	630	60
15°	604	604	603	606	605	171
25°	559	558	556	558	557	258
35°	494	494	492	492	494	310
45°	415	415	413	413	413	320
55°	325	324	323	322	322	291
65°	228	228	225	226	224	225
75°	129	129	128	128	129	138
85°	38	38	37	37	38	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	632.1	632.1	632.1	632.1	632.1
2.5°	632.6	630.0	630.5	631.6	631.6
5°	628.9	628.9	627.9	629.5	630.0
7.5°	628.9	626.3	624.7	626.3	627.3
10°	620.5	619.4	620.5	619.9	621.5
12.5°	613.0	612.0	612.0	613.6	613.6
15°	604.5	604.5	603.0	605.6	605.1
17.5°	596.1	596.1	595.0	595.0	596.1
20°	586.0	583.3	584.4	583.9	583.3
22.5°	572.2	570.6	569.5	571.1	571.7
25°	558.9	557.9	555.8	557.9	557.3
27.5°	544.6	543.6	543.0	542.0	543.0
30°	528.7	527.6	527.1	526.1	526.1
32.5°	512.8	510.7	508.0	510.7	510.1
35°	493.7	493.7	491.6	492.1	493.7
37.5°	476.7	475.7	474.6	473.0	473.6
40°	457.6	456.1	455.5	454.5	452.3
42.5°	435.4	435.4	433.3	433.8	433.3
45°	415.2	414.7	412.6	412.6	412.6
47.5°	394.0	393.5	391.9	390.8	391.9
50°	372.3	370.1	370.1	368.6	368.0
52.5°	349.5	347.9	345.8	346.3	345.2
55°	325.1	324.5	323.0	322.4	322.4
57.5°	300.7	301.2	300.1	298.0	298.6
60°	276.8	276.3	275.2	274.2	274.2
62.5°	252.4	252.4	250.3	250.3	248.2
65°	228.0	228.0	225.4	226.4	224.3
67.5°	203.6	203.1	201.5	201.0	201.5
70°	177.1	177.7	176.6	176.6	177.1
72.5°	153.3	152.7	152.2	152.2	153.3
75°	129.4	128.9	127.8	127.8	128.9
77.5°	107.7	105.0	104.5	105.5	103.9
80°	85.9	82.2	81.7	81.1	81.1
82.5°	60.5	58.9	59.4	58.9	59.9
85°	38.2	37.7	37.1	37.1	37.7
87.5°	18.0	17.0	17.0	16.4	16.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)