

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: P292752

Luminaire Tested: **22GR-LD5-20-FGW080-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292752
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-4500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1764.0 lumens
Efficiency: N/A
Efficacy: 112.2 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

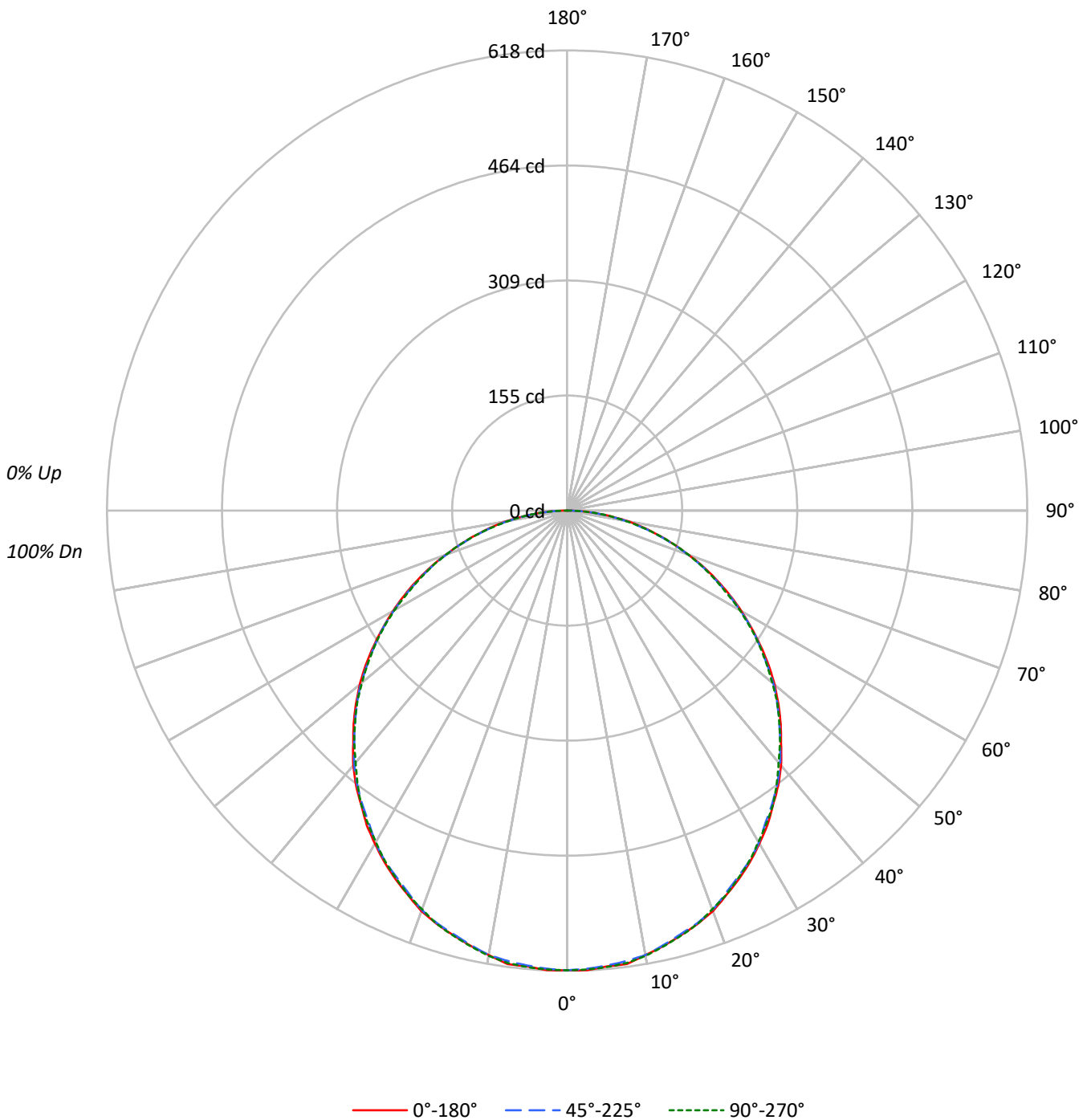
Input Watts (W): 15.717
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1661	1661	1661
5°	1659	1657	1662
10°	1656	1656	1659
15°	1645	1641	1646
20°	1639	1635	1632
25°	1621	1612	1616
30°	1605	1600	1597
35°	1584	1577	1584
40°	1570	1563	1552
45°	1544	1534	1534
50°	1522	1513	1505
55°	1490	1480	1477
60°	1455	1447	1441
65°	1418	1401	1395
70°	1361	1357	1361
75°	1314	1298	1309
80°	1300	1237	1227
85°	1152	1121	1136



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.4	3.3
10°-20°	166.7	9.4
20°-30°	250.9	14.2
30°-40°	301.1	17.1
40°-50°	311.6	17.7
50°-60°	282.4	16.0
60°-70°	218.9	12.4
70°-80°	132.9	7.5
80°-90°	41.1	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°	476.0	27.0
0°-40°	777.2	44.1
0°-60°	1371.1	77.7
0°-90°	1764.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1764.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	617	617	617	617	617	
5°	614	614	613	615	615	59
15°	590	590	589	592	591	167
25°	546	545	543	545	544	252
35°	482	482	480	481	482	302
45°	406	405	403	403	403	313
55°	318	317	315	315	315	284
65°	223	223	220	221	219	220
75°	126	126	125	125	126	134
85°	37	37	36	36	37	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	617.4	617.4	617.4	617.4	617.4
2.5°	617.9	615.3	615.9	616.9	616.9
5°	614.3	614.3	613.3	614.8	615.3
7.5°	614.3	611.7	610.2	611.7	612.8
10°	606.0	605.0	606.0	605.5	607.1
12.5°	598.8	597.7	597.7	599.3	599.3
15°	590.5	590.5	588.9	591.5	591.0
17.5°	582.2	582.2	581.2	581.2	582.2
20°	572.4	569.8	570.8	570.3	569.8
22.5°	558.9	557.3	556.3	557.9	558.4
25°	545.9	544.9	542.8	544.9	544.4
27.5°	532.0	530.9	530.4	529.4	530.4
30°	516.4	515.4	514.9	513.8	513.8
32.5°	500.9	498.8	496.2	498.8	498.3
35°	482.2	482.2	480.2	480.7	482.2
37.5°	465.7	464.6	463.6	462.0	462.5
40°	447.0	445.5	444.9	443.9	441.8
42.5°	425.3	425.3	423.2	423.7	423.2
45°	405.6	405.1	403.0	403.0	403.0
47.5°	384.8	384.3	382.8	381.7	382.8
50°	363.6	361.5	361.5	360.0	359.5
52.5°	341.3	339.8	337.7	338.2	337.2
55°	317.5	317.0	315.4	314.9	314.9
57.5°	293.7	294.2	293.2	291.1	291.6
60°	270.4	269.9	268.8	267.8	267.8
62.5°	246.6	246.6	244.5	244.5	242.4
65°	222.7	222.7	220.1	221.2	219.1
67.5°	198.9	198.4	196.8	196.3	196.8
70°	173.0	173.5	172.5	172.5	173.0
72.5°	149.7	149.2	148.7	148.7	149.7
75°	126.4	125.9	124.8	124.8	125.9
77.5°	105.1	102.6	102.0	103.1	101.5
80°	83.9	80.3	79.8	79.2	79.2
82.5°	59.0	57.5	58.0	57.5	58.5
85°	37.3	36.8	36.3	36.3	36.8
87.5°	17.6	16.6	16.6	16.1	16.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)