

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: P292853

Luminaire Tested: **22GR-LD5-20-FGW080-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292853
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-L92765-W2A1-U-5700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1637.0 lumens
Efficiency: N/A
Efficacy: 102.9 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

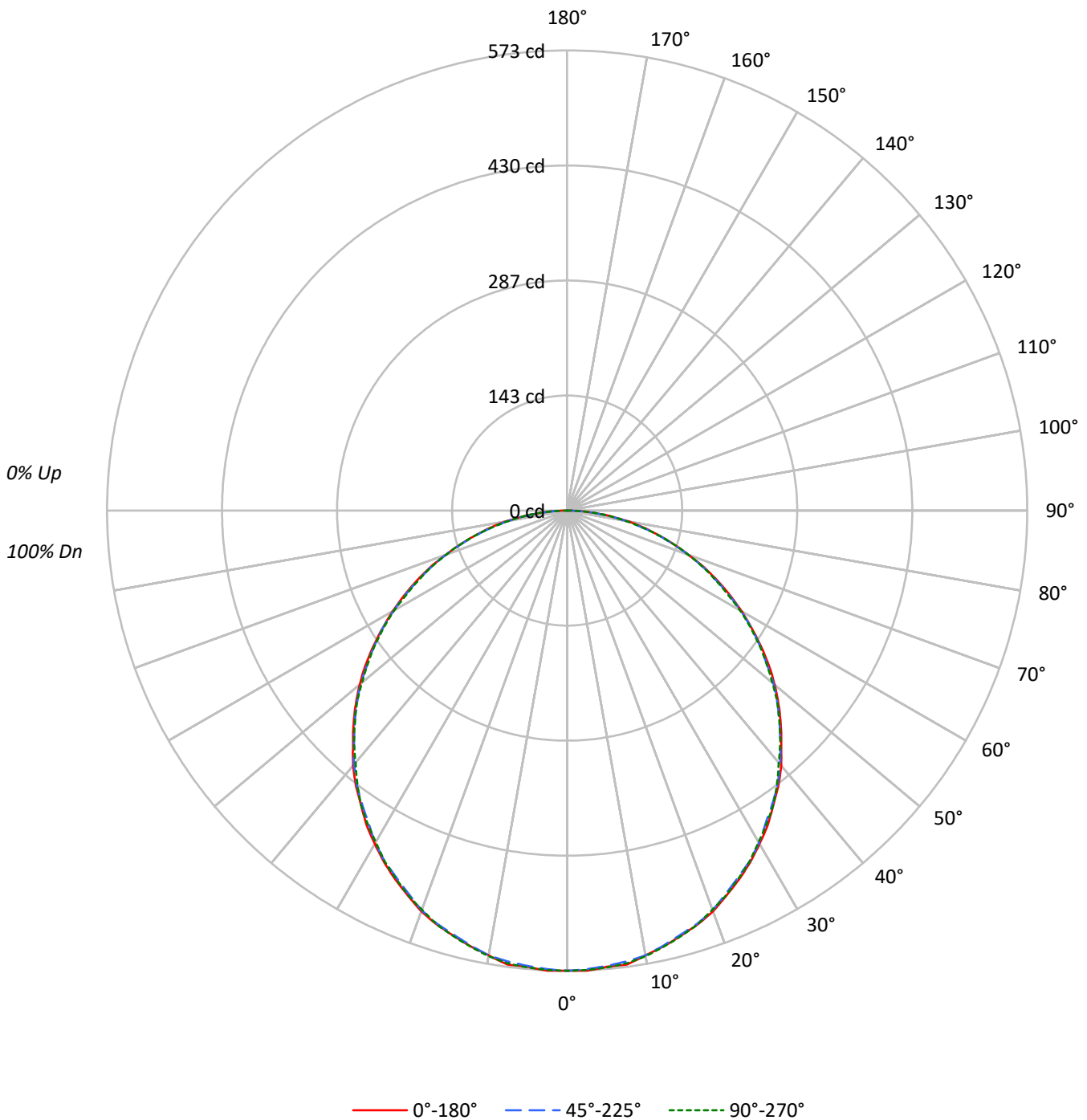
Input Watts (W): 15.903
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1542	1542	1542
5°	1540	1537	1542
10°	1537	1537	1539
15°	1527	1522	1528
20°	1521	1517	1514
25°	1504	1496	1500
30°	1489	1485	1482
35°	1470	1464	1470
40°	1457	1450	1440
45°	1432	1423	1423
50°	1412	1405	1397
55°	1383	1373	1371
60°	1350	1343	1337
65°	1316	1301	1294
70°	1263	1260	1263
75°	1220	1204	1214
80°	1207	1147	1139
85°	1068	1037	1053



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.2	3.3
10°-20°	154.7	9.4
20°-30°	232.9	14.2
30°-40°	279.5	17.1
40°-50°	289.2	17.7
50°-60°	262.0	16.0
60°-70°	203.1	12.4
70°-80°	123.3	7.5
80°-90°	38.2	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°	441.7	27.0
0°-40°	721.2	44.1
0°-60°	1272.4	77.7
0°-90°	1637.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1637.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	573	573	573	573	573	
5°	570	570	569	571	571	54
15°	548	548	546	549	548	155
25°	507	506	504	506	505	234
35°	448	448	446	446	448	281
45°	376	376	374	374	374	290
55°	295	294	293	292	292	263
65°	207	207	204	205	203	204
75°	117	117	116	116	117	125
85°	35	34	34	34	34	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	573.0	573.0	573.0	573.0	573.0
2.5°	573.4	571.0	571.5	572.5	572.5
5°	570.1	570.1	569.1	570.6	571.0
7.5°	570.1	567.7	566.2	567.7	568.6
10°	562.4	561.4	562.4	561.9	563.4
12.5°	555.7	554.7	554.7	556.1	556.1
15°	548.0	548.0	546.5	548.9	548.5
17.5°	540.3	540.3	539.3	539.3	540.3
20°	531.1	528.7	529.7	529.2	528.7
22.5°	518.6	517.2	516.2	517.7	518.2
25°	506.6	505.7	503.7	505.7	505.2
27.5°	493.7	492.7	492.2	491.3	492.2
30°	479.2	478.3	477.8	476.8	476.8
32.5°	464.8	462.9	460.5	462.9	462.4
35°	447.5	447.5	445.6	446.1	447.5
37.5°	432.1	431.2	430.2	428.8	429.2
40°	414.8	413.4	412.9	411.9	410.0
42.5°	394.6	394.6	392.7	393.2	392.7
45°	376.4	375.9	374.0	374.0	374.0
47.5°	357.1	356.7	355.2	354.3	355.2
50°	337.4	335.5	335.5	334.1	333.6
52.5°	316.8	315.3	313.4	313.9	312.9
55°	294.7	294.2	292.7	292.3	292.3
57.5°	272.5	273.0	272.1	270.1	270.6
60°	250.9	250.4	249.5	248.5	248.5
62.5°	228.8	228.8	226.9	226.9	225.0
65°	206.7	206.7	204.3	205.2	203.3
67.5°	184.6	184.1	182.7	182.2	182.7
70°	160.5	161.0	160.1	160.1	160.5
72.5°	138.9	138.4	138.0	138.0	138.9
75°	117.3	116.8	115.8	115.8	116.8
77.5°	97.6	95.2	94.7	95.7	94.2
80°	77.9	74.5	74.0	73.5	73.5
82.5°	54.8	53.4	53.8	53.4	54.3
85°	34.6	34.1	33.6	33.6	34.1
87.5°	16.3	15.4	15.4	14.9	14.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)