

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: P292729

Luminaire Tested: **22GR-LD5-32-FGW080-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292729
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-LD5-32-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: 2692.0 lumens
Efficiency: N/A
Efficacy: 109.6 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

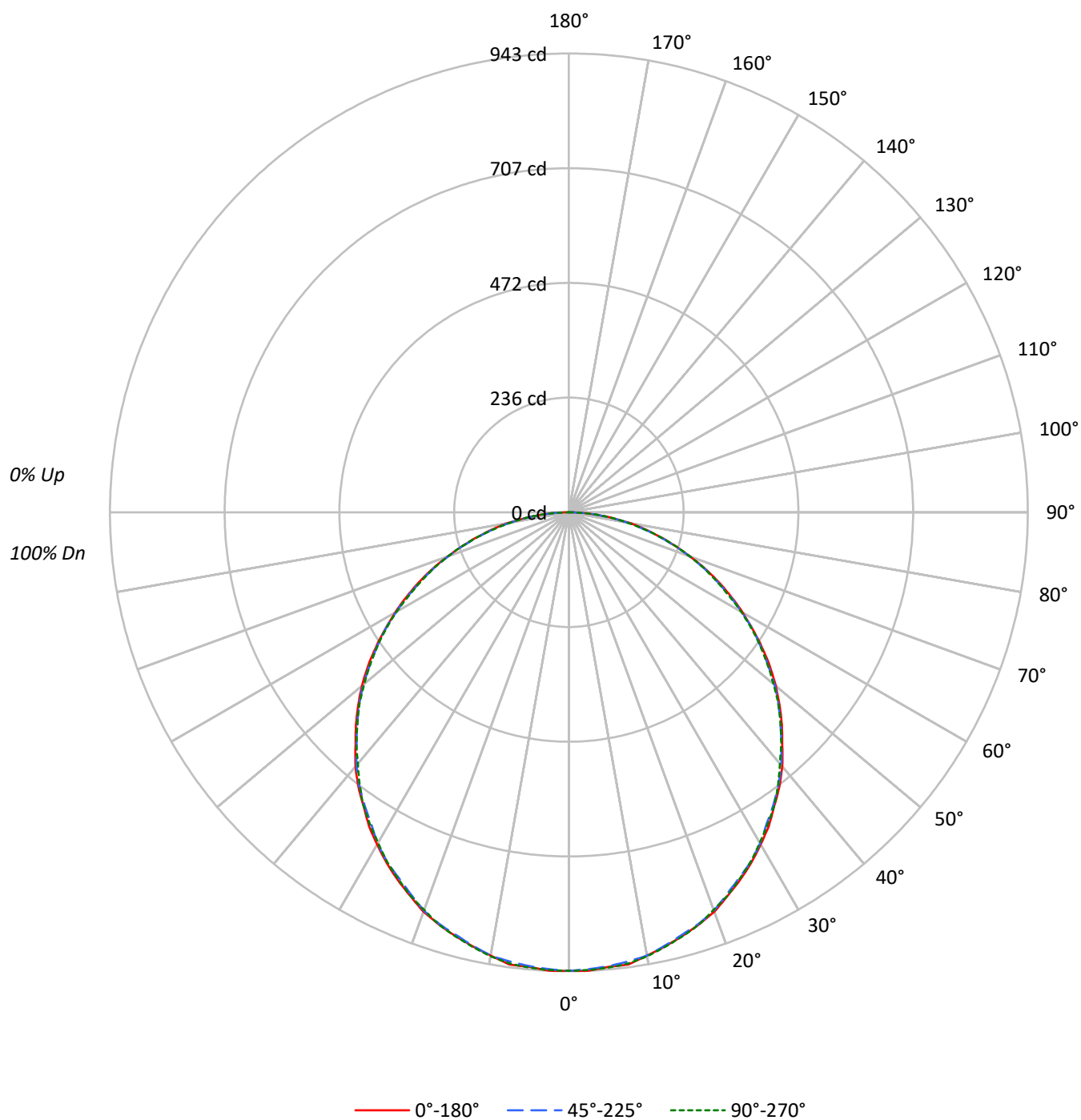
Input Watts (W): 24.552
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	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		100
1	108	103	99	95	106	101	97	94	97	94	91		93	90	88		83
2	98	90	83	77	96	88	82	76	85	79	74		81	77	73		69
3	90	79	71	64	87	77	70	63	74	68	62		71	66	61		58
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		49
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		43
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		37
7	65	51	42	36	63	50	42	36	48	41	35		47	40	35		33
8	60	46	38	32	58	46	37	32	44	37	32		43	36	31		29
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		26
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2535	2535	2535
5°	2532	2528	2537
10°	2527	2527	2531
15°	2510	2504	2513
20°	2501	2495	2490
25°	2474	2460	2467
30°	2449	2441	2436
35°	2417	2407	2417
40°	2396	2385	2369
45°	2355	2340	2340
50°	2323	2310	2297
55°	2274	2259	2255
60°	2221	2208	2200
65°	2164	2139	2129
70°	2077	2071	2077
75°	2006	1981	1997
80°	1985	1886	1874
85°	1757	1707	1732



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.1	3.3
10°-20°	254.3	9.4
20°-30°	383.0	14.2
30°-40°	459.6	17.1
40°-50°	475.5	17.7
50°-60°	430.9	16.0
60°-70°	334.0	12.4
70°-80°	202.8	7.5
80°-90°	62.7	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°	726.4	27.0
0°-40°	1186.0	44.1
0°-60°	2092.4	77.7
0°-90°	2692.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2692.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	942	942	942	942	942	
5°	938	938	936	938	939	89
15°	901	901	899	903	902	255
25°	833	832	828	832	831	384
35°	736	736	733	734	736	461
45°	619	618	615	615	615	478
55°	485	484	481	481	481	433
65°	340	340	336	338	334	336
75°	193	192	190	190	192	205
85°	57	56	55	55	56	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	942.2	942.2	942.2	942.2	942.2
2.5°	943.0	939.1	939.9	941.4	941.4
5°	937.5	937.5	935.9	938.3	939.1
7.5°	937.5	933.5	931.2	933.5	935.1
10°	924.8	923.3	924.8	924.0	926.4
12.5°	913.8	912.2	912.2	914.6	914.6
15°	901.1	901.1	898.7	902.7	901.9
17.5°	888.5	888.5	886.9	886.9	888.5
20°	873.5	869.5	871.1	870.3	869.5
22.5°	852.9	850.5	849.0	851.3	852.1
25°	833.1	831.6	828.4	831.6	830.8
27.5°	811.8	810.2	809.4	807.8	809.4
30°	788.1	786.5	785.7	784.1	784.1
32.5°	764.4	761.2	757.3	761.2	760.4
35°	735.9	735.9	732.8	733.5	735.9
37.5°	710.6	709.0	707.5	705.1	705.9
40°	682.2	679.8	679.0	677.4	674.3
42.5°	649.0	649.0	645.8	646.6	645.8
45°	618.9	618.1	615.0	615.0	615.0
47.5°	587.3	586.5	584.1	582.6	584.1
50°	554.9	551.7	551.7	549.4	548.6
52.5°	520.9	518.5	515.4	516.2	514.6
55°	484.6	483.8	481.4	480.6	480.6
57.5°	448.2	449.0	447.4	444.2	445.0
60°	412.6	411.8	410.2	408.7	408.7
62.5°	376.3	376.3	373.1	373.1	369.9
65°	339.9	339.9	335.9	337.5	334.4
67.5°	303.5	302.7	300.4	299.6	300.4
70°	264.0	264.8	263.2	263.2	264.0
72.5°	228.4	227.7	226.9	226.9	228.4
75°	192.9	192.1	190.5	190.5	192.1
77.5°	160.5	156.5	155.7	157.3	154.9
80°	128.1	122.5	121.7	120.9	120.9
82.5°	90.1	87.7	88.5	87.7	89.3
85°	56.9	56.1	55.3	55.3	56.1
87.5°	26.9	25.3	25.3	24.5	24.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)