

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: P292791

Luminaire Tested: **22GR-LD5-36-FGW080-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292791
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-LD5-36-FGW080-UNV-L82765-W2A1-U-5700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3150.0 lumens
Efficiency: N/A
Efficacy: 109.3 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

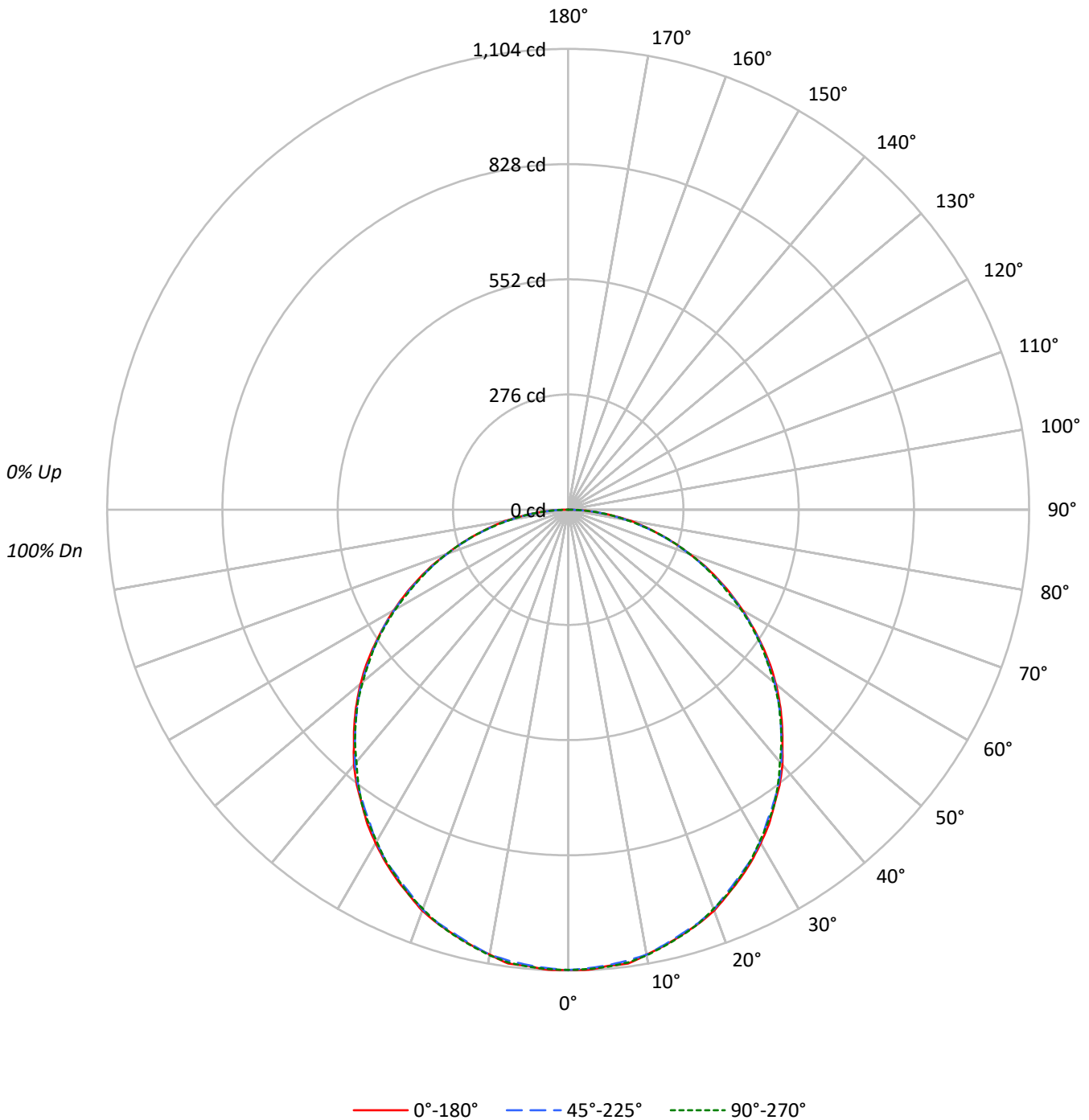
Input Watts (W): 28.83
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2967	2967	2967
5°	2963	2958	2968
10°	2957	2957	2962
15°	2937	2930	2940
20°	2927	2919	2914
25°	2895	2878	2886
30°	2866	2857	2851
35°	2829	2817	2829
40°	2804	2791	2772
45°	2756	2739	2739
50°	2718	2703	2687
55°	2660	2643	2639
60°	2598	2583	2574
65°	2532	2503	2491
70°	2430	2423	2430
75°	2347	2318	2337
80°	2321	2207	2193
85°	2056	1998	2029



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.3	3.3
10°-20°	297.6	9.4
20°-30°	448.1	14.2
30°-40°	537.8	17.1
40°-50°	556.4	17.7
50°-60°	504.2	16.0
60°-70°	390.9	12.4
70°-80°	237.3	7.5
80°-90°	73.4	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°	850.0	27.0
0°-40°	1387.8	44.1
0°-60°	2448.4	77.7
0°-90°	3150.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3150.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1102	1102	1102	1102	1102	
5°	1097	1097	1095	1098	1099	105
15°	1054	1054	1052	1056	1055	298
25°	975	973	969	973	972	449
35°	861	861	857	858	861	540
45°	724	723	720	720	720	559
55°	567	566	563	562	562	507
65°	398	398	393	395	391	393
75°	226	225	223	223	225	240
85°	67	66	65	65	66	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1102.5	1102.5	1102.5	1102.5	1102.5
2.5°	1103.5	1098.8	1099.8	1101.6	1101.6
5°	1097.0	1097.0	1095.1	1097.9	1098.8
7.5°	1097.0	1092.4	1089.6	1092.4	1094.2
10°	1082.2	1080.3	1082.2	1081.3	1084.0
12.5°	1069.2	1067.4	1067.4	1070.2	1070.2
15°	1054.4	1054.4	1051.7	1056.3	1055.4
17.5°	1039.6	1039.6	1037.8	1037.8	1039.6
20°	1022.1	1017.4	1019.3	1018.4	1017.4
22.5°	998.0	995.2	993.4	996.2	997.1
25°	974.9	973.0	969.3	973.0	972.1
27.5°	949.9	948.1	947.1	945.3	947.1
30°	922.2	920.3	919.4	917.5	917.5
32.5°	894.4	890.7	886.1	890.7	889.8
35°	861.1	861.1	857.4	858.3	861.1
37.5°	831.5	829.7	827.8	825.0	826.0
40°	798.2	795.4	794.5	792.7	789.0
42.5°	759.4	759.4	755.7	756.6	755.7
45°	724.2	723.3	719.6	719.6	719.6
47.5°	687.2	686.3	683.5	681.7	683.5
50°	649.3	645.6	645.6	642.8	641.9
52.5°	609.5	606.8	603.1	604.0	602.1
55°	567.0	566.1	563.3	562.4	562.4
57.5°	524.4	525.4	523.5	519.8	520.7
60°	482.8	481.9	480.0	478.2	478.2
62.5°	440.3	440.3	436.6	436.6	432.9
65°	397.7	397.7	393.1	394.9	391.2
67.5°	355.2	354.3	351.5	350.6	351.5
70°	308.9	309.9	308.0	308.0	308.9
72.5°	267.3	266.4	265.5	265.5	267.3
75°	225.7	224.8	222.9	222.9	224.8
77.5°	187.8	183.1	182.2	184.1	181.3
80°	149.8	143.4	142.4	141.5	141.5
82.5°	105.4	102.7	103.6	102.7	104.5
85°	66.6	65.7	64.7	64.7	65.7
87.5°	31.4	29.6	29.6	28.7	28.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)