

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: P292802

Luminaire Tested: **22GR-LD5-43-FGW080-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292802
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-LD5-43-FGW080-UNV-L82765-W2A1-U-2700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3337.0 lumens
Efficiency: N/A
Efficacy: 94.9 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

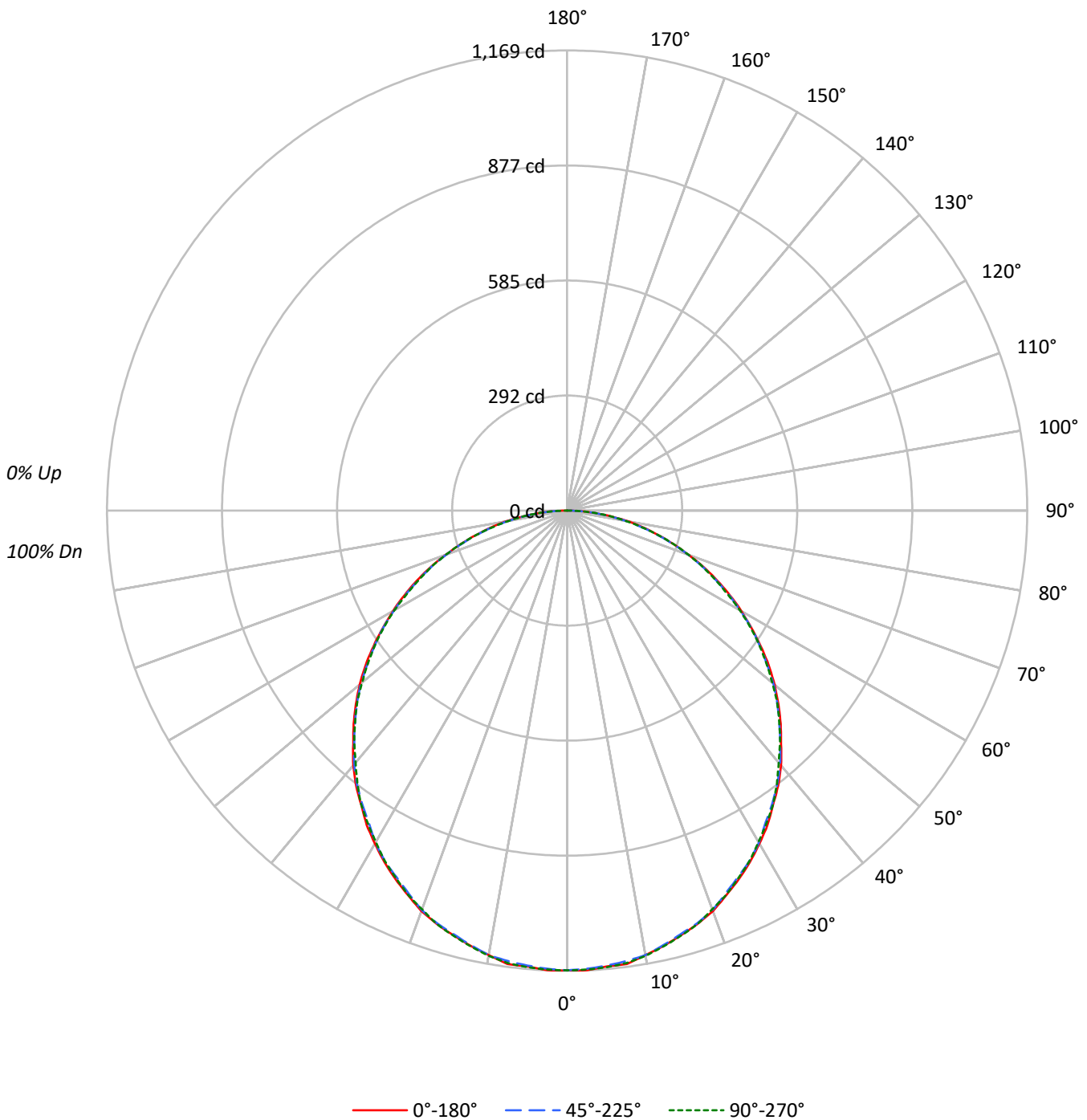
Input Watts (W): 35.154
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3143	3143	3143
5°	3139	3134	3145
10°	3133	3133	3138
15°	3112	3104	3115
20°	3101	3092	3086
25°	3067	3049	3058
30°	3035	3026	3020
35°	2997	2984	2997
40°	2970	2957	2936
45°	2920	2901	2901
50°	2880	2863	2847
55°	2818	2799	2795
60°	2753	2737	2726
65°	2683	2651	2639
70°	2575	2567	2575
75°	2486	2455	2476
80°	2459	2338	2323
85°	2177	2118	2149



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.5	3.3
10°-20°	315.3	9.4
20°-30°	474.7	14.2
30°-40°	569.7	17.1
40°-50°	589.5	17.7
50°-60°	534.2	16.0
60°-70°	414.1	12.4
70°-80°	251.4	7.5
80°-90°	77.8	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°	900.5	27.0
0°-40°	1470.2	44.1
0°-60°	2593.8	77.7
0°-90°	3337.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3337.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1168	1168	1168	1168	1168	
5°	1162	1162	1160	1163	1164	111
15°	1117	1117	1114	1119	1118	316
25°	1033	1031	1027	1031	1030	476
35°	912	912	908	909	912	572
45°	767	766	762	762	762	592
55°	601	600	597	596	596	537
65°	421	421	416	418	414	417
75°	239	238	236	236	238	254
85°	70	70	69	69	70	80
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1168.0	1168.0	1168.0	1168.0	1168.0
2.5°	1169.0	1164.1	1165.0	1167.0	1167.0
5°	1162.1	1162.1	1160.1	1163.1	1164.1
7.5°	1162.1	1157.2	1154.3	1157.2	1159.2
10°	1146.4	1144.5	1146.4	1145.4	1148.4
12.5°	1132.7	1130.7	1130.7	1133.7	1133.7
15°	1117.0	1117.0	1114.1	1119.0	1118.0
17.5°	1101.4	1101.4	1099.4	1099.4	1101.4
20°	1082.7	1077.8	1079.8	1078.8	1077.8
22.5°	1057.3	1054.3	1052.4	1055.3	1056.3
25°	1032.8	1030.8	1026.9	1030.8	1029.8
27.5°	1006.3	1004.3	1003.4	1001.4	1003.4
30°	976.9	975.0	974.0	972.0	972.0
32.5°	947.5	943.6	938.7	943.6	942.6
35°	912.2	912.2	908.3	909.3	912.2
37.5°	880.9	878.9	877.0	874.0	875.0
40°	845.6	842.7	841.7	839.7	835.8
42.5°	804.5	804.5	800.5	801.5	800.5
45°	767.2	766.2	762.3	762.3	762.3
47.5°	728.0	727.0	724.1	722.1	724.1
50°	687.9	683.9	683.9	681.0	680.0
52.5°	645.7	642.8	638.9	639.8	637.9
55°	600.6	599.7	596.7	595.7	595.7
57.5°	555.6	556.6	554.6	550.7	551.7
60°	511.5	510.5	508.5	506.6	506.6
62.5°	466.4	466.4	462.5	462.5	458.6
65°	421.3	421.3	416.4	418.4	414.5
67.5°	376.3	375.3	372.3	371.4	372.3
70°	327.3	328.2	326.3	326.3	327.3
72.5°	283.2	282.2	281.2	281.2	283.2
75°	239.1	238.1	236.1	236.1	238.1
77.5°	198.9	194.0	193.0	195.0	192.1
80°	158.7	151.9	150.9	149.9	149.9
82.5°	111.7	108.8	109.7	108.8	110.7
85°	70.5	69.6	68.6	68.6	69.6
87.5°	33.3	31.4	31.4	30.4	30.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)