

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: P292797

Luminaire Tested: **22GR-LD5-40-FGW080-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292797
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-LD5-40-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: 3460.0 lumens
Efficiency: N/A
Efficacy: 104.8 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

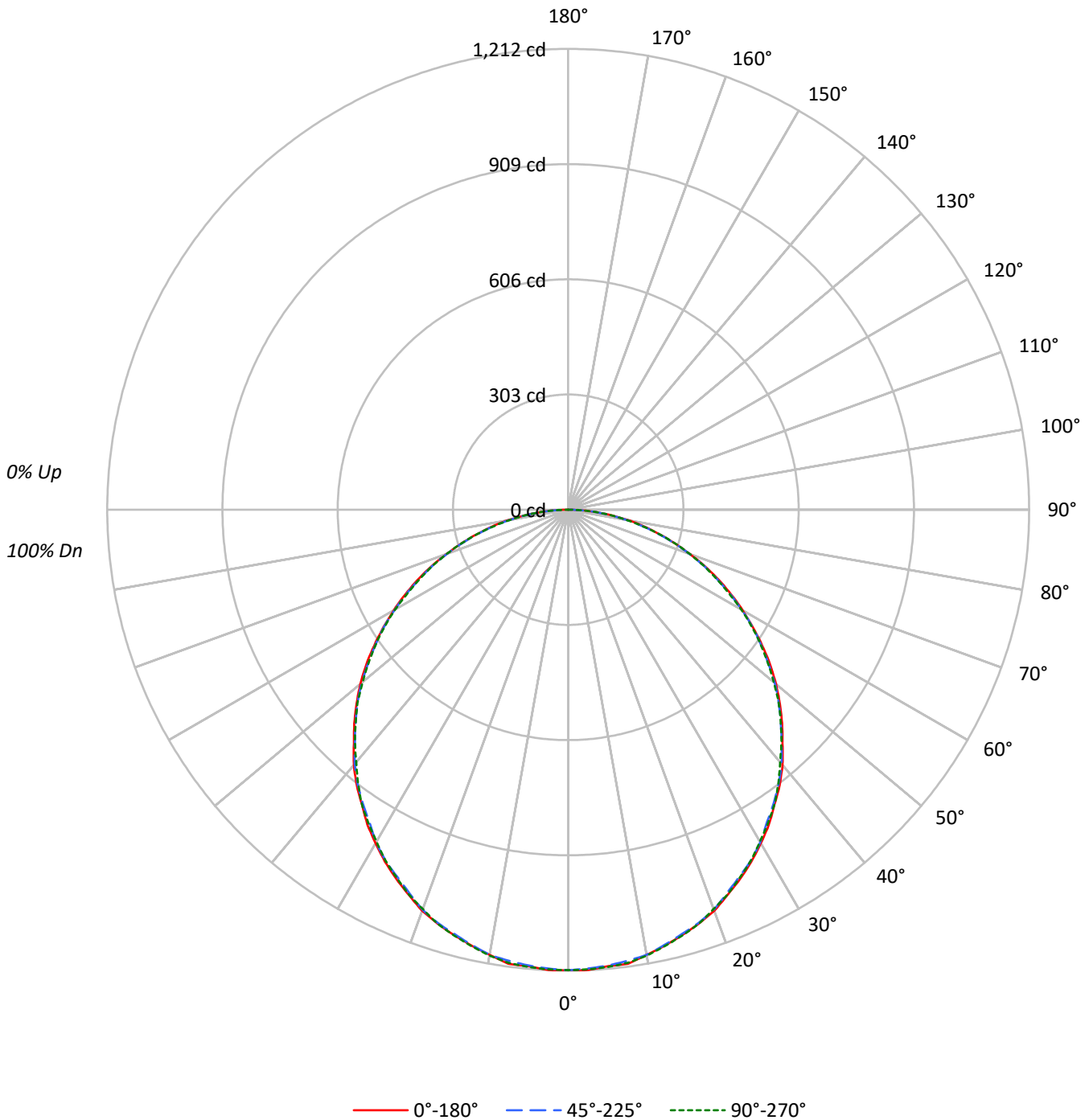
Input Watts (W): 33.015
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3259	3259	3259
5°	3255	3249	3260
10°	3248	3248	3254
15°	3227	3218	3229
20°	3215	3206	3200
25°	3179	3161	3170
30°	3147	3138	3132
35°	3107	3094	3107
40°	3080	3066	3044
45°	3027	3008	3008
50°	2986	2969	2952
55°	2922	2903	2898
60°	2854	2838	2827
65°	2782	2749	2737
70°	2670	2662	2670
75°	2577	2545	2567
80°	2551	2425	2408
85°	2257	2195	2226



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.6	3.3
10°-20°	326.9	9.4
20°-30°	492.2	14.2
30°-40°	590.7	17.1
40°-50°	611.2	17.7
50°-60°	553.8	16.0
60°-70°	429.3	12.4
70°-80°	260.6	7.5
80°-90°	80.7	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°	933.6	27.0
0°-40°	1524.3	44.1
0°-60°	2689.4	77.7
0°-90°	3460.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3460.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1211	1211	1211	1211	1211	
5°	1205	1205	1203	1206	1207	115
15°	1158	1158	1155	1160	1159	327
25°	1071	1069	1065	1069	1068	494
35°	946	946	942	943	946	593
45°	796	794	790	790	790	614
55°	623	622	619	618	618	557
65°	437	437	432	434	430	432
75°	248	247	245	245	247	264
85°	73	72	71	71	72	83
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1211.0	1211.0	1211.0	1211.0	1211.0
2.5°	1212.0	1207.0	1208.0	1210.0	1210.0
5°	1204.9	1204.9	1202.9	1206.0	1207.0
7.5°	1204.9	1199.9	1196.8	1199.9	1201.9
10°	1188.7	1186.6	1188.7	1187.7	1190.7
12.5°	1174.5	1172.4	1172.4	1175.5	1175.5
15°	1158.2	1158.2	1155.2	1160.2	1159.2
17.5°	1141.9	1141.9	1139.9	1139.9	1141.9
20°	1122.6	1117.6	1119.6	1118.6	1117.6
22.5°	1096.2	1093.2	1091.1	1094.2	1095.2
25°	1070.8	1068.8	1064.7	1068.8	1067.8
27.5°	1043.4	1041.4	1040.3	1038.3	1040.3
30°	1012.9	1010.9	1009.9	1007.8	1007.8
32.5°	982.4	978.4	973.3	978.4	977.4
35°	945.9	945.9	941.8	942.8	945.9
37.5°	913.4	911.3	909.3	906.2	907.3
40°	876.8	873.7	872.7	870.7	866.6
42.5°	834.1	834.1	830.0	831.1	830.0
45°	795.5	794.5	790.4	790.4	790.4
47.5°	754.9	753.8	750.8	748.8	750.8
50°	713.2	709.1	709.1	706.1	705.1
52.5°	669.5	666.5	662.4	663.4	661.4
55°	622.8	621.8	618.7	617.7	617.7
57.5°	576.1	577.1	575.0	571.0	572.0
60°	530.3	529.3	527.3	525.3	525.3
62.5°	483.6	483.6	479.5	479.5	475.5
65°	436.9	436.9	431.8	433.8	429.8
67.5°	390.1	389.1	386.1	385.1	386.1
70°	339.3	340.3	338.3	338.3	339.3
72.5°	293.6	292.6	291.6	291.6	293.6
75°	247.9	246.9	244.8	244.8	246.9
77.5°	206.2	201.2	200.1	202.2	199.1
80°	164.6	157.5	156.5	155.4	155.4
82.5°	115.8	112.8	113.8	112.8	114.8
85°	73.1	72.1	71.1	71.1	72.1
87.5°	34.5	32.5	32.5	31.5	31.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)