

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: P292741

Luminaire Tested: **22GR-LD5-40-FGW080-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292741
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-L83050-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: 3611.0 lumens
Efficiency: N/A
Efficacy: 106.4 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

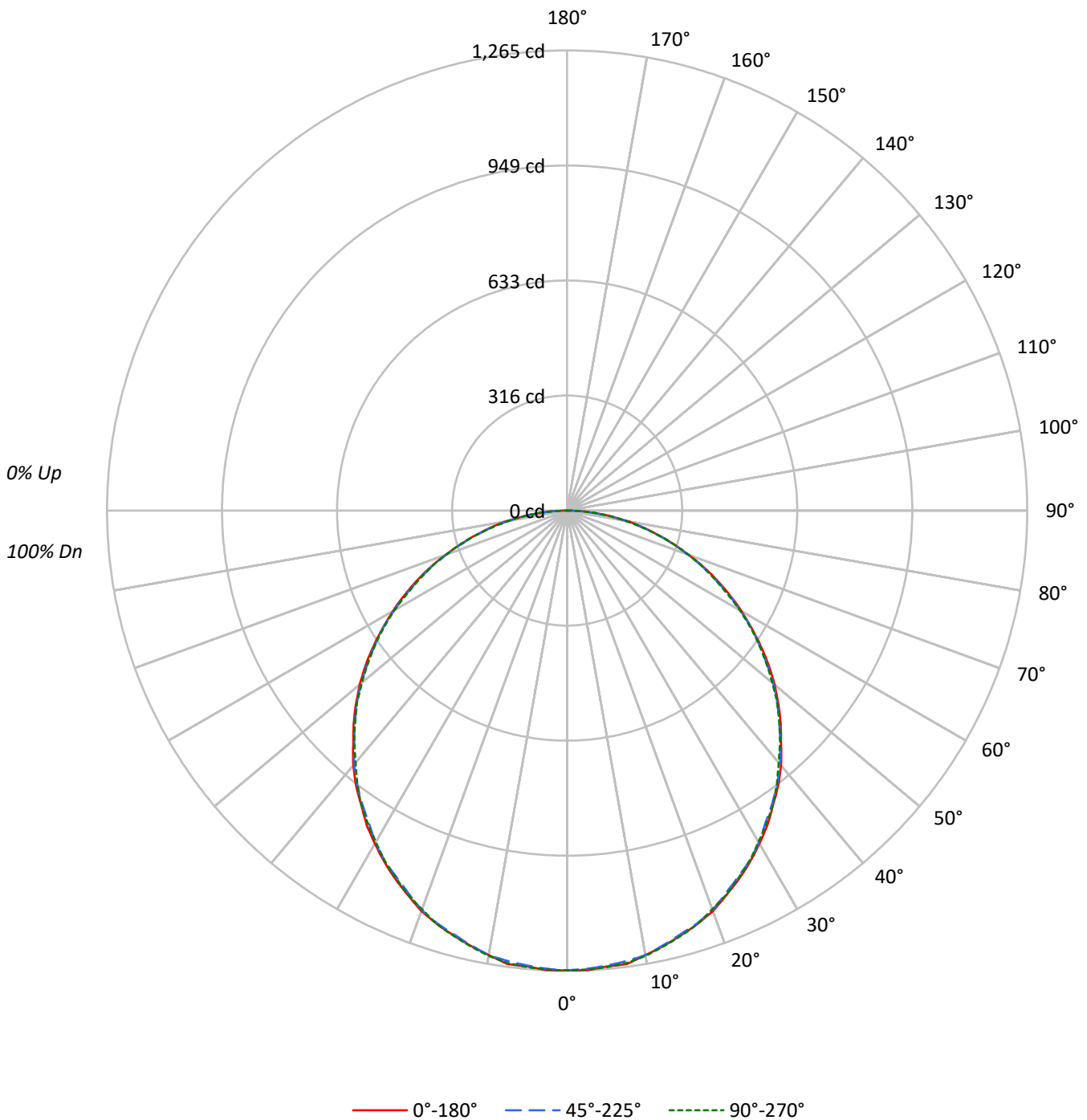
Input Watts (W): 33.945
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3401	3401	3401
5°	3397	3391	3403
10°	3390	3390	3396
15°	3367	3359	3370
20°	3355	3346	3340
25°	3318	3299	3309
30°	3285	3275	3268
35°	3243	3229	3243
40°	3214	3199	3177
45°	3159	3139	3139
50°	3116	3098	3081
55°	3050	3029	3025
60°	2979	2962	2950
65°	2903	2869	2856
70°	2786	2778	2786
75°	2690	2656	2679
80°	2662	2531	2514
85°	2356	2291	2325



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.6	3.3
10°-20°	341.1	9.4
20°-30°	513.7	14.2
30°-40°	616.5	17.1
40°-50°	637.9	17.7
50°-60°	578.0	16.0
60°-70°	448.1	12.4
70°-80°	272.0	7.5
80°-90°	84.2	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°	974.4	27.0
0°-40°	1590.9	44.1
0°-60°	2806.8	77.7
0°-90°	3611.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3611.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1264	1264	1264	1264	1264	
5°	1258	1258	1255	1259	1260	120
15°	1209	1209	1206	1211	1210	341
25°	1118	1115	1111	1115	1114	515
35°	987	987	983	984	987	619
45°	830	829	825	825	825	641
55°	650	649	646	645	645	581
65°	456	456	451	453	448	451
75°	259	258	256	256	258	275
85°	76	75	74	74	75	87
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1263.9	1263.9	1263.9	1263.9	1263.9
2.5°	1264.9	1259.6	1260.7	1262.8	1262.8
5°	1257.5	1257.5	1255.4	1258.6	1259.6
7.5°	1257.5	1252.2	1249.0	1252.2	1254.3
10°	1240.6	1238.4	1240.6	1239.5	1242.7
12.5°	1225.7	1223.6	1223.6	1226.8	1226.8
15°	1208.7	1208.7	1205.6	1210.9	1209.8
17.5°	1191.8	1191.8	1189.7	1189.7	1191.8
20°	1171.6	1166.3	1168.5	1167.4	1166.3
22.5°	1144.1	1140.9	1138.8	1141.9	1143.0
25°	1117.6	1115.4	1111.2	1115.4	1114.4
27.5°	1088.9	1086.8	1085.8	1083.6	1085.8
30°	1057.1	1055.0	1053.9	1051.8	1051.8
32.5°	1025.3	1021.1	1015.8	1021.1	1020.0
35°	987.1	987.1	982.9	984.0	987.1
37.5°	953.2	951.1	949.0	945.8	946.9
40°	915.0	911.9	910.8	908.7	904.4
42.5°	870.5	870.5	866.3	867.3	866.3
45°	830.2	829.2	824.9	824.9	824.9
47.5°	787.8	786.7	783.6	781.4	783.6
50°	744.3	740.1	740.1	736.9	735.9
52.5°	698.7	695.6	691.3	692.4	690.3
55°	650.0	648.9	645.7	644.7	644.7
57.5°	601.2	602.3	600.1	595.9	597.0
60°	553.5	552.4	550.3	548.2	548.2
62.5°	504.7	504.7	500.5	500.5	496.2
65°	455.9	455.9	450.6	452.8	448.5
67.5°	407.2	406.1	402.9	401.9	402.9
70°	354.1	355.2	353.1	353.1	354.1
72.5°	306.4	305.4	304.3	304.3	306.4
75°	258.7	257.7	255.5	255.5	257.7
77.5°	215.2	209.9	208.9	211.0	207.8
80°	171.8	164.3	163.3	162.2	162.2
82.5°	120.9	117.7	118.8	117.7	119.8
85°	76.3	75.3	74.2	74.2	75.3
87.5°	36.1	33.9	33.9	32.9	32.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)