

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: P292798

Luminaire Tested: **22GR-LD5-40-FGW080-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292798
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-5000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3507.0 lumens
Efficiency: N/A
Efficacy: 105.9 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

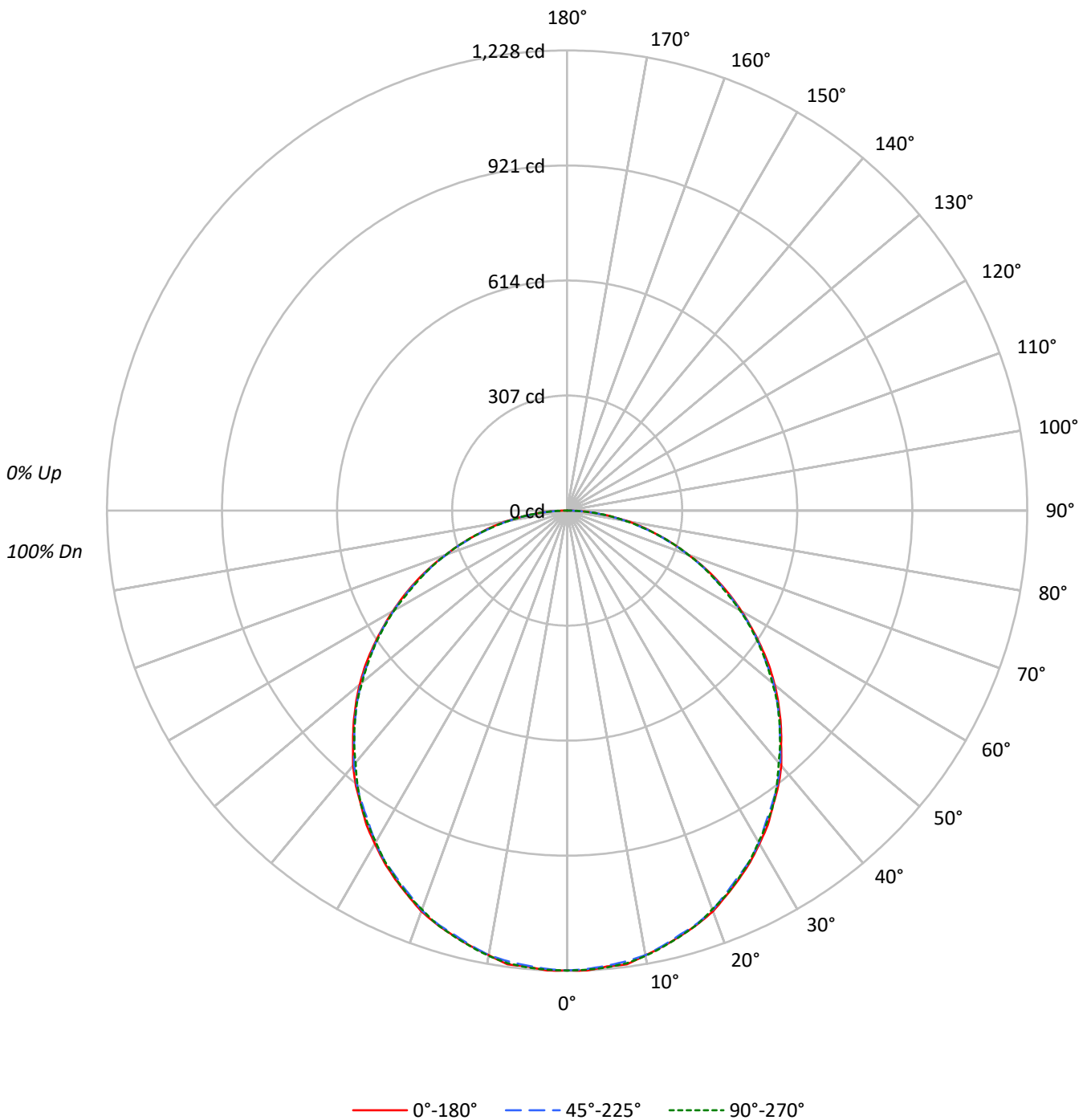
Input Watts (W): 33.108
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3303	3303	3303
5°	3299	3293	3305
10°	3292	3292	3298
15°	3270	3262	3273
20°	3259	3250	3244
25°	3223	3204	3214
30°	3190	3181	3174
35°	3149	3136	3149
40°	3122	3107	3086
45°	3068	3049	3049
50°	3026	3009	2992
55°	2961	2942	2937
60°	2893	2876	2865
65°	2819	2787	2774
70°	2706	2698	2706
75°	2613	2581	2601
80°	2585	2458	2442
85°	2288	2226	2257



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.1	3.3
10°-20°	331.3	9.4
20°-30°	498.9	14.2
30°-40°	598.7	17.1
40°-50°	619.5	17.7
50°-60°	561.4	16.0
60°-70°	435.2	12.4
70°-80°	264.2	7.5
80°-90°	81.8	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°	946.3	27.0
0°-40°	1545.1	44.1
0°-60°	2725.9	77.7
0°-90°	3507.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3507.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1228	1228	1228	1228	1228	
5°	1221	1221	1219	1222	1223	116
15°	1174	1174	1171	1176	1175	332
25°	1085	1083	1079	1083	1082	500
35°	959	959	955	956	959	601
45°	806	805	801	801	801	622
55°	631	630	627	626	626	564
65°	443	443	438	440	436	438
75°	251	250	248	248	250	267
85°	74	73	72	72	73	84
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1227.5	1227.5	1227.5	1227.5	1227.5
2.5°	1228.5	1223.4	1224.4	1226.5	1226.5
5°	1221.3	1221.3	1219.2	1222.3	1223.4
7.5°	1221.3	1216.2	1213.1	1216.2	1218.2
10°	1204.8	1202.8	1204.8	1203.8	1206.9
12.5°	1190.4	1188.4	1188.4	1191.4	1191.4
15°	1173.9	1173.9	1170.8	1176.0	1175.0
17.5°	1157.5	1157.5	1155.4	1155.4	1157.5
20°	1137.9	1132.7	1134.8	1133.8	1132.7
22.5°	1111.1	1108.0	1106.0	1109.1	1110.1
25°	1085.4	1083.3	1079.2	1083.3	1082.3
27.5°	1057.6	1055.5	1054.5	1052.4	1054.5
30°	1026.7	1024.6	1023.6	1021.5	1021.5
32.5°	995.8	991.7	986.5	991.7	990.6
35°	958.7	958.7	954.6	955.6	958.7
37.5°	925.8	923.7	921.6	918.6	919.6
40°	888.7	885.6	884.6	882.5	878.4
42.5°	845.4	845.4	841.3	842.3	841.3
45°	806.3	805.3	801.2	801.2	801.2
47.5°	765.1	764.1	761.0	758.9	761.0
50°	722.9	718.8	718.8	715.7	714.7
52.5°	678.6	675.5	671.4	672.4	670.4
55°	631.2	630.2	627.1	626.1	626.1
57.5°	583.9	584.9	582.8	578.7	579.8
60°	537.5	536.5	534.4	532.4	532.4
62.5°	490.2	490.2	486.1	486.1	481.9
65°	442.8	442.8	437.7	439.7	435.6
67.5°	395.4	394.4	391.3	390.3	391.3
70°	343.9	345.0	342.9	342.9	343.9
72.5°	297.6	296.6	295.5	295.5	297.6
75°	251.3	250.2	248.2	248.2	250.2
77.5°	209.0	203.9	202.9	204.9	201.8
80°	166.8	159.6	158.6	157.6	157.6
82.5°	117.4	114.3	115.3	114.3	116.4
85°	74.1	73.1	72.1	72.1	73.1
87.5°	35.0	33.0	33.0	31.9	31.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)