

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: P292809

Luminaire Tested: **22GR-LD5-43-FGW080-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292809
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-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: 3791.0 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

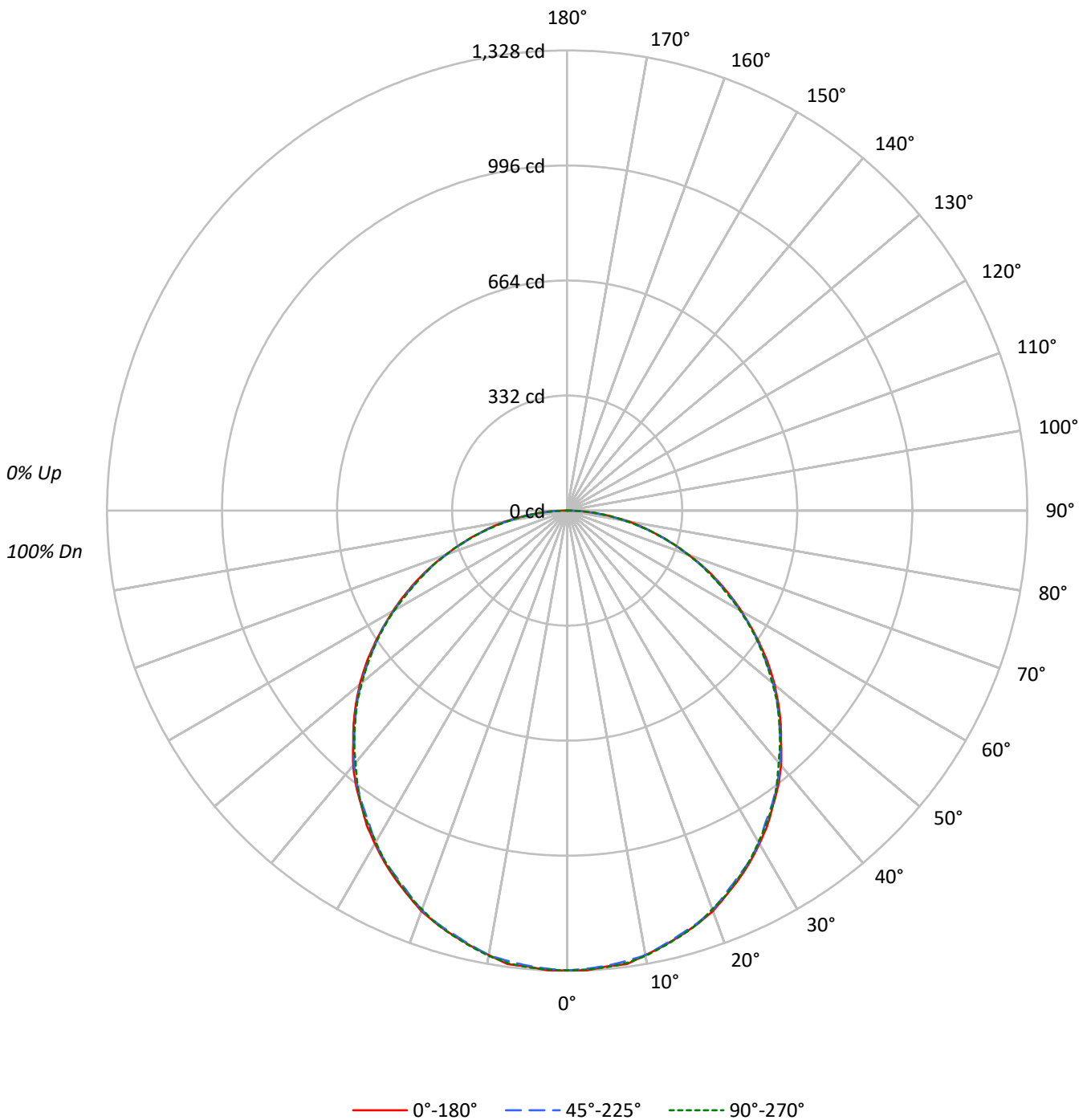
Input Watts (W): 36.177
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3571	3571	3571
5°	3566	3560	3572
10°	3559	3559	3565
15°	3535	3526	3538
20°	3522	3513	3507
25°	3484	3464	3474
30°	3448	3438	3431
35°	3405	3390	3405
40°	3375	3359	3335
45°	3317	3296	3296
50°	3271	3253	3234
55°	3202	3180	3175
60°	3127	3109	3097
65°	3048	3012	2998
70°	2925	2917	2925
75°	2824	2790	2812
80°	2794	2656	2639
85°	2473	2405	2439



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.5	3.3
10°-20°	358.2	9.4
20°-30°	539.3	14.2
30°-40°	647.2	17.1
40°-50°	669.7	17.7
50°-60°	606.8	16.0
60°-70°	470.4	12.4
70°-80°	285.6	7.5
80°-90°	88.4	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°	1023.0	27.0
0°-40°	1670.2	44.1
0°-60°	2946.7	77.7
0°-90°	3791.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3791.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1327	1327	1327	1327	1327	
5°	1320	1320	1318	1321	1322	126
15°	1269	1269	1266	1271	1270	358
25°	1173	1171	1167	1171	1170	541
35°	1036	1036	1032	1033	1036	650
45°	872	870	866	866	866	673
55°	682	681	678	677	677	610
65°	479	479	473	475	471	473
75°	272	270	268	268	270	289
85°	80	79	78	78	79	91
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1326.9	1326.9	1326.9	1326.9	1326.9
2.5°	1328.0	1322.4	1323.5	1325.8	1325.8
5°	1320.2	1320.2	1318.0	1321.3	1322.4
7.5°	1320.2	1314.6	1311.3	1314.6	1316.9
10°	1302.4	1300.2	1302.4	1301.3	1304.6
12.5°	1286.8	1284.6	1284.6	1287.9	1287.9
15°	1269.0	1269.0	1265.7	1271.2	1270.1
17.5°	1251.2	1251.2	1249.0	1249.0	1251.2
20°	1230.0	1224.5	1226.7	1225.6	1224.5
22.5°	1201.1	1197.8	1195.5	1198.9	1200.0
25°	1173.3	1171.0	1166.6	1171.0	1169.9
27.5°	1143.2	1141.0	1139.9	1137.6	1139.9
30°	1109.8	1107.6	1106.5	1104.3	1104.3
32.5°	1076.4	1072.0	1066.4	1072.0	1070.9
35°	1036.4	1036.4	1031.9	1033.0	1036.4
37.5°	1000.7	998.5	996.3	992.9	994.1
40°	960.7	957.3	956.2	954.0	949.5
42.5°	913.9	913.9	909.5	910.6	909.5
45°	871.6	870.5	866.0	866.0	866.0
47.5°	827.1	826.0	822.6	820.4	822.6
50°	781.4	777.0	777.0	773.6	772.5
52.5°	733.6	730.2	725.8	726.9	724.7
55°	682.4	681.3	677.9	676.8	676.8
57.5°	631.2	632.3	630.0	625.6	626.7
60°	581.1	580.0	577.7	575.5	575.5
62.5°	529.9	529.9	525.4	525.4	521.0
65°	478.7	478.7	473.1	475.3	470.9
67.5°	427.5	426.3	423.0	421.9	423.0
70°	371.8	372.9	370.7	370.7	371.8
72.5°	321.7	320.6	319.5	319.5	321.7
75°	271.6	270.5	268.3	268.3	270.5
77.5°	226.0	220.4	219.3	221.5	218.2
80°	180.3	172.5	171.4	170.3	170.3
82.5°	126.9	123.6	124.7	123.6	125.8
85°	80.1	79.0	77.9	77.9	79.0
87.5°	37.8	35.6	35.6	34.5	34.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)