

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: P292804

Luminaire Tested: **22GR-LD5-43-FGW080-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292804  
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-3500K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH FGW080 LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3552.0 lumens  
Efficiency: N/A  
Efficacy: 100.5 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

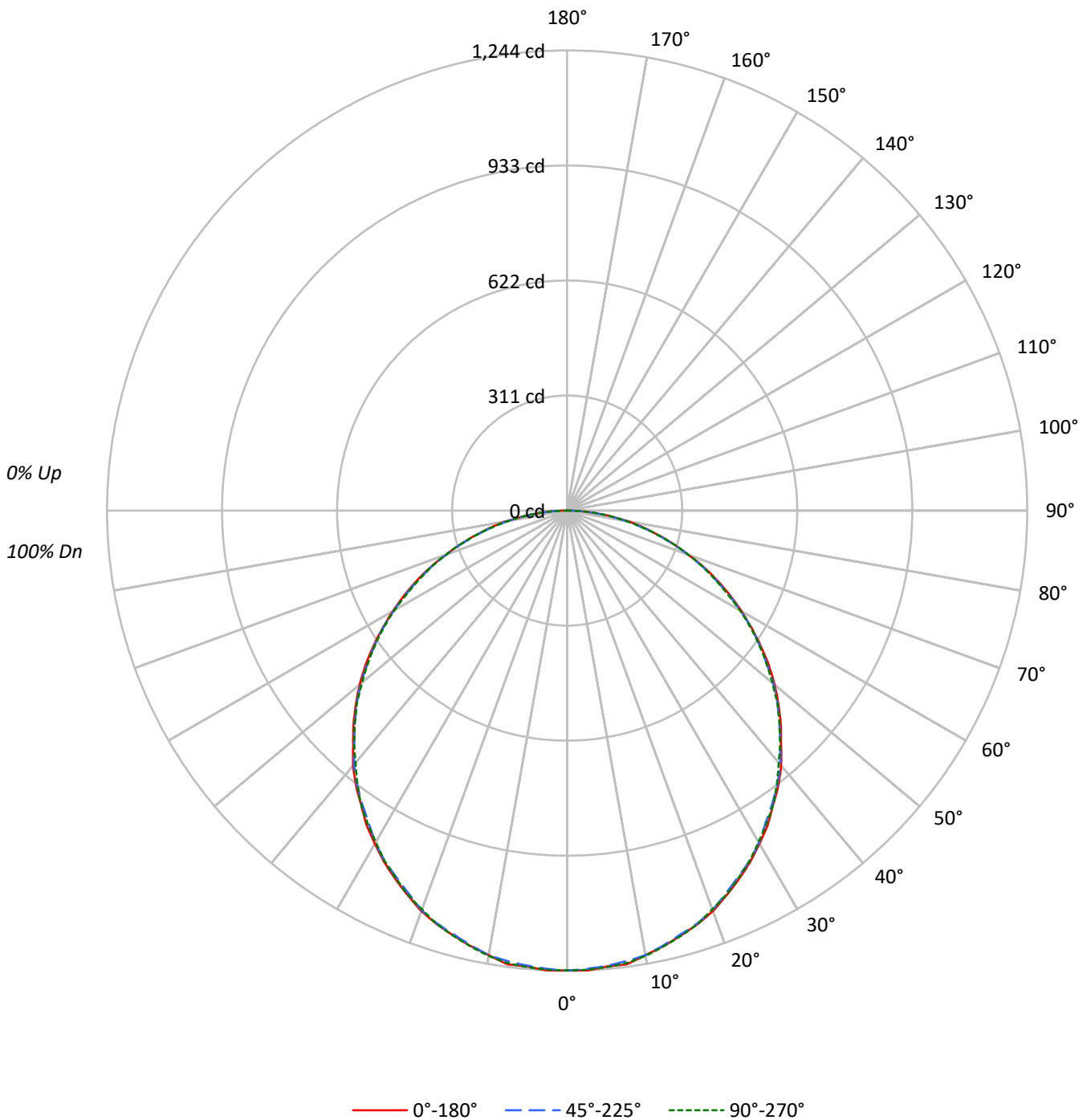
Input Watts (W): 35.34  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43					43			
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37					37			
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33					33			
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26					26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24					24			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3345	3345	3345
5°	3341	3336	3347
10°	3334	3334	3340
15°	3312	3304	3315
20°	3300	3292	3285
25°	3264	3245	3255
30°	3231	3221	3215
35°	3190	3176	3190
40°	3162	3147	3125
45°	3108	3088	3088
50°	3065	3048	3030
55°	2999	2980	2975
60°	2930	2913	2902
65°	2856	2823	2809
70°	2741	2733	2741
75°	2646	2614	2635
80°	2619	2489	2473
85°	2319	2254	2288



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.6	3.3
10°-20°	335.6	9.4
20°-30°	505.3	14.2
30°-40°	606.4	17.1
40°-50°	627.5	17.7
50°-60°	568.6	16.0
60°-70°	440.7	12.4
70°-80°	267.6	7.5
80°-90°	82.8	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°	958.5	27.0
0°-40°	1564.9	44.1
0°-60°	2760.9	77.7
0°-90°	3552.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3552.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1243	1243	1243	1243	1243	
5°	1237	1237	1235	1238	1239	118
15°	1189	1189	1186	1191	1190	336
25°	1099	1097	1093	1097	1096	507
35°	971	971	967	968	971	609
45°	817	816	811	811	811	630
55°	639	638	635	634	634	572
65°	448	448	443	445	441	443
75°	254	253	251	251	253	271
85°	75	74	73	73	74	85
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1243.2	1243.2	1243.2	1243.2	1243.2
2.5°	1244.3	1239.1	1240.1	1242.2	1242.2
5°	1237.0	1237.0	1234.9	1238.0	1239.1
7.5°	1237.0	1231.8	1228.6	1231.8	1233.8
10°	1220.3	1218.2	1220.3	1219.2	1222.4
12.5°	1205.7	1203.6	1203.6	1206.7	1206.7
15°	1189.0	1189.0	1185.9	1191.1	1190.0
17.5°	1172.3	1172.3	1170.2	1170.2	1172.3
20°	1152.5	1147.3	1149.4	1148.3	1147.3
22.5°	1125.4	1122.2	1120.2	1123.3	1124.3
25°	1099.3	1097.2	1093.0	1097.2	1096.2
27.5°	1071.1	1069.1	1068.0	1065.9	1068.0
30°	1039.9	1037.8	1036.7	1034.6	1034.6
32.5°	1008.6	1004.4	999.2	1004.4	1003.3
35°	971.0	971.0	966.8	967.9	971.0
37.5°	937.6	935.6	933.5	930.3	931.4
40°	900.1	897.0	895.9	893.8	889.7
42.5°	856.3	856.3	852.1	853.2	852.1
45°	816.7	815.6	811.4	811.4	811.4
47.5°	774.9	773.9	770.8	768.7	770.8
50°	732.2	728.0	728.0	724.9	723.8
52.5°	687.3	684.2	680.0	681.1	679.0
55°	639.3	638.3	635.2	634.1	634.1
57.5°	591.4	592.4	590.3	586.2	587.2
60°	544.4	543.4	541.3	539.2	539.2
62.5°	496.5	496.5	492.3	492.3	488.1
65°	448.5	448.5	443.3	445.4	441.2
67.5°	400.5	399.5	396.3	395.3	396.3
70°	348.4	349.4	347.3	347.3	348.4
72.5°	301.4	300.4	299.3	299.3	301.4
75°	254.5	253.4	251.4	251.4	253.4
77.5°	211.7	206.5	205.5	207.6	204.4
80°	169.0	161.7	160.6	159.6	159.6
82.5°	118.9	115.8	116.8	115.8	117.9
85°	75.1	74.1	73.0	73.0	74.1
87.5°	35.5	33.4	33.4	32.3	32.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)