

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: P291785

Luminaire Tested: **22GR-LD5-24-F1-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P291785  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-23)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22GR-LD5-24-F1-UNV-L82765-W2A1-U-6500K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH F1 LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2550.0 lumens  
Efficiency: N/A  
Efficacy: 134.4 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.19 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

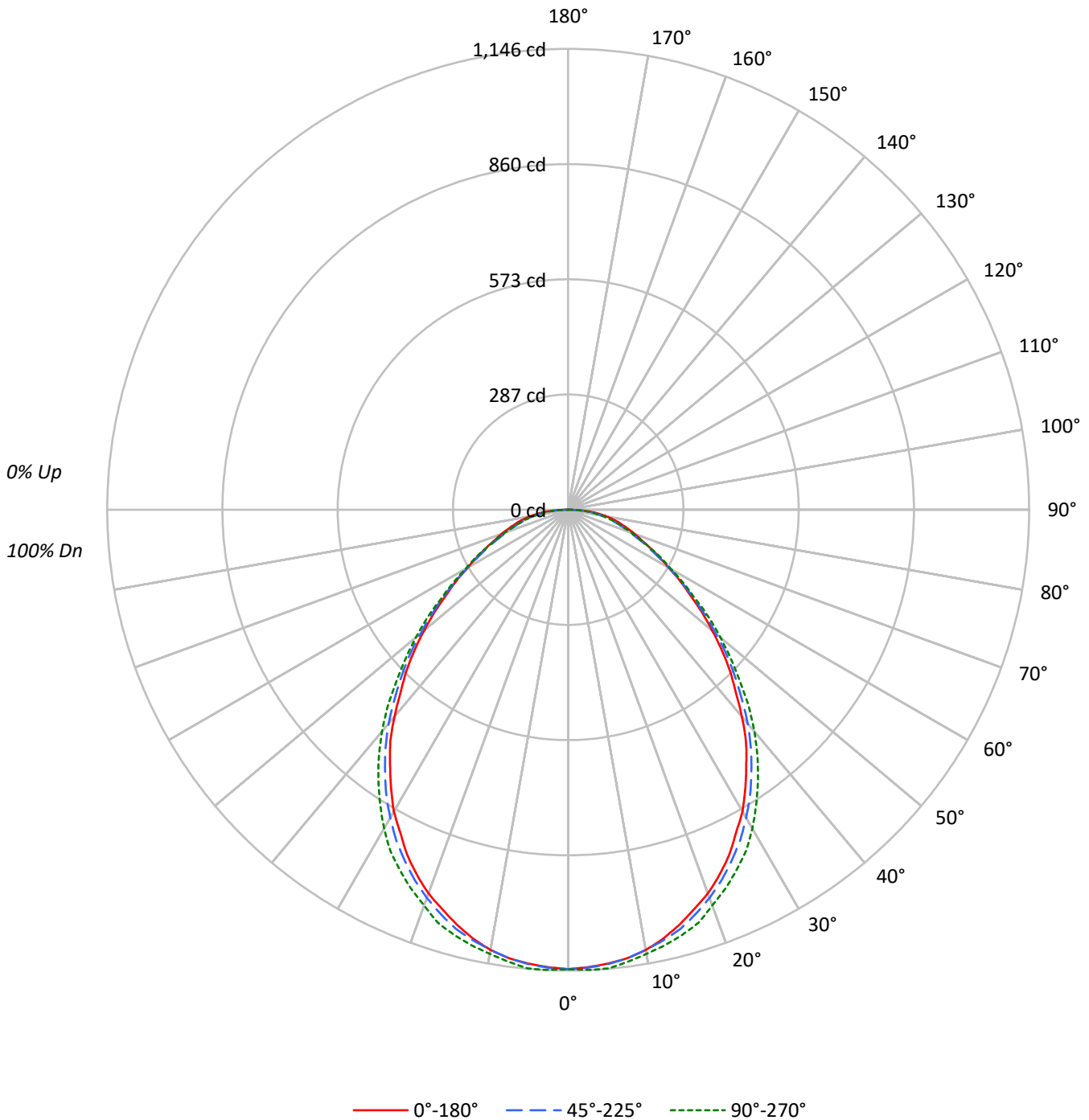
Input Watts (W): 18.972  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85					85			
2	101	93	87	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73					73			
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63					63			
4	85	74	66	59	83	73	65	59	70	63	58	68	62	57	66	61	57	55					55			
5	79	67	58	52	77	66	58	52	63	56	51	62	55	51	60	54	50	48					48			
6	73	60	52	46	71	59	51	46	58	51	45	56	50	45	55	49	45	43					43			
7	68	55	47	41	66	54	46	41	53	46	41	51	45	40	50	44	40	38					38			
8	63	51	42	37	62	50	42	37	49	42	37	47	41	36	46	40	36	34					34			
9	59	47	39	33	58	46	39	33	45	38	33	44	38	33	43	37	33	31					31			
10	56	43	36	31	55	43	35	30	42	35	30	41	35	30	40	34	30	28					28			

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

	0°	45°	90°
0°	3075	3075	3075
5°	3061	3065	3093
10°	3038	3036	3065
15°	2976	3006	3050
20°	2908	2942	2999
25°	2812	2857	2937
30°	2693	2748	2845
35°	2536	2609	2701
40°	2360	2440	2529
45°	2167	2229	2298
50°	1954	2003	2067
55°	1734	1775	1805
60°	1554	1557	1589
65°	1432	1384	1432
70°	1382	1281	1318
75°	1407	1255	1279
80°	1516	1316	1316
85°	1683	1392	1374



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.8	4.2
10°-20°	304.0	11.9
20°-30°	443.7	17.4
30°-40°	496.8	19.5
40°-50°	452.1	17.7
50°-60°	340.3	13.3
60°-70°	222.1	8.7
70°-80°	133.2	5.2
80°-90°	50.0	2.0
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°	855.6	33.6
0°-40°	1352.4	53.0
0°-60°	2144.8	84.1
0°-90°	2550.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2550.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1143	1143	1143	1143	1143	
5°	1133	1132	1134	1139	1145	108
15°	1068	1070	1079	1088	1095	301
25°	947	950	962	980	989	435
35°	772	779	794	813	822	482
45°	569	575	586	598	604	438
55°	370	375	378	384	385	334
65°	225	223	217	221	225	225
75°	135	131	121	121	123	144
85°	54	53	45	43	44	56
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1142.7	1142.7	1142.7	1142.7	1142.7
2.5°	1138.6	1138.0	1139.8	1142.7	1145.6
5°	1133.3	1131.6	1134.5	1138.6	1145.1
7.5°	1125.1	1125.1	1125.1	1132.8	1133.9
10°	1111.7	1112.8	1111.1	1118.7	1121.6
12.5°	1092.3	1092.9	1096.4	1104.1	1109.3
15°	1068.3	1069.5	1078.9	1087.7	1094.7
17.5°	1041.4	1045.5	1054.3	1068.3	1077.1
20°	1015.6	1020.3	1027.3	1042.6	1047.2
22.5°	982.8	988.1	996.9	1010.3	1020.3
25°	947.1	950.0	962.3	979.9	989.3
27.5°	904.3	910.8	926.0	944.2	957.0
30°	866.8	870.4	884.4	905.5	915.5
32.5°	819.4	829.9	841.7	860.4	869.8
35°	772.0	779.0	794.2	813.0	822.3
37.5°	726.3	730.4	745.6	761.4	773.1
40°	671.8	679.4	694.6	711.6	719.8
42.5°	617.3	628.5	638.4	655.4	664.2
45°	569.3	575.2	585.7	598.0	603.9
47.5°	518.9	521.9	534.2	541.8	548.2
50°	466.8	470.3	478.5	486.1	493.7
52.5°	418.8	421.7	427.0	434.0	441.6
55°	369.6	374.9	378.4	383.6	384.8
57.5°	329.8	329.2	331.5	335.6	339.7
60°	288.8	289.9	289.3	293.4	295.2
62.5°	254.8	254.2	250.7	256.5	261.2
65°	224.9	222.6	217.3	220.8	224.9
67.5°	197.4	196.2	187.4	190.4	193.9
70°	175.7	171.6	162.8	164.6	167.5
72.5°	154.6	149.9	141.2	141.7	143.5
75°	135.3	130.6	120.7	121.2	123.0
77.5°	117.1	111.3	102.5	101.3	102.5
80°	97.8	92.5	84.9	81.4	84.9
82.5°	77.9	75.0	66.2	62.7	63.8
85°	54.5	52.7	45.1	42.8	44.5
87.5°	25.2	26.9	22.8	21.1	21.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)