

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: P291987

Luminaire Tested: **22GR-LD5-28-F125-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P291987  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33295)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22GR-LD5-28-F125-UNV-L82765-W2A1-U-5000K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3005.0 lumens  
Efficiency: N/A  
Efficacy: 133.0 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.19 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

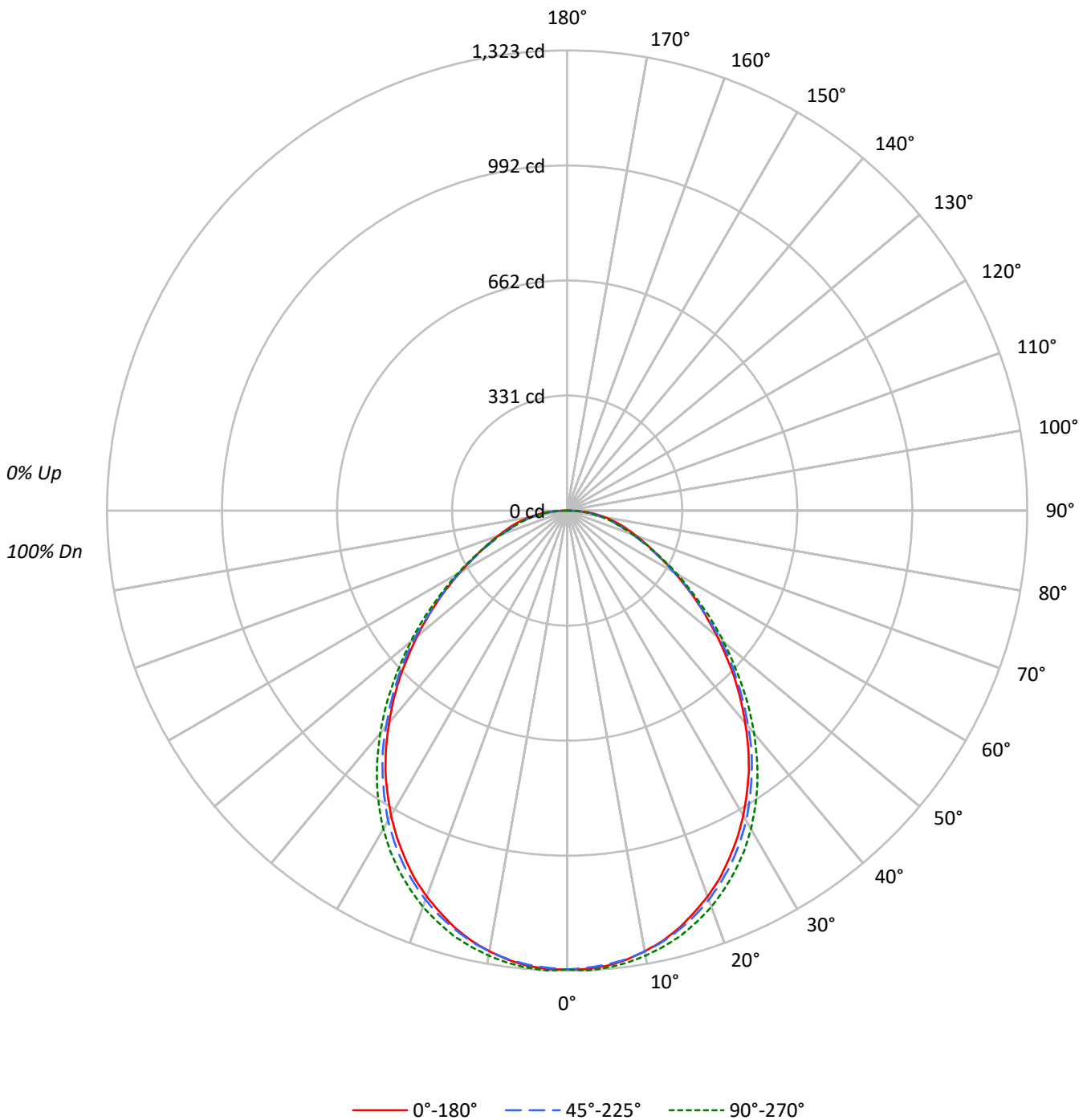
Input Watts (W): 22.599  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	110	105	101	97	107	103	99	96	99	96	93		95	92	90		91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78		84	80	76		81	78	75	73
3	92	82	75	69	90	81	74	68	78	72	67		75	70	66		73	68	65	62
4	85	74	65	59	83	72	65	59	70	63	58		68	62	57		65	60	56	54
5	78	66	58	52	76	65	57	51	63	56	51		61	55	50		59	54	50	48
6	73	60	52	45	71	59	51	45	57	50	45		56	49	45		54	49	44	42
7	68	55	46	41	66	54	46	40	53	45	40		51	45	40		50	44	40	38
8	63	50	42	36	62	50	42	36	48	41	36		47	41	36		46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33		44	37	33		43	37	33	31
10	56	43	35	30	54	42	35	30	41	35	30		40	34	30		40	34	30	28

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

	0°	45°	90°
0°	3550	3550	3550
5°	3548	3539	3563
10°	3515	3517	3550
15°	3461	3473	3524
20°	3381	3410	3472
25°	3275	3321	3393
30°	3146	3200	3284
35°	2991	3040	3133
40°	2797	2844	2937
45°	2590	2630	2707
50°	2359	2396	2458
55°	2130	2136	2198
60°	1910	1918	1963
65°	1740	1705	1745
70°	1657	1563	1591
75°	1668	1508	1515
80°	1729	1523	1512
85°	1896	1615	1528



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	124.6	4.1
10°-20°	352.1	11.7
20°-30°	515.3	17.1
30°-40°	579.4	19.3
40°-50°	534.3	17.8
50°-60°	411.8	13.7
60°-70°	271.7	9.0
70°-80°	158.1	5.3
80°-90°	57.6	1.9
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°	992.0	33.0
0°-40°	1571.4	52.3
0°-60°	2517.5	83.8
0°-90°	3005.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3005.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1319	1319	1319	1319	1319	
5°	1314	1311	1310	1316	1319	125
15°	1242	1242	1247	1258	1265	350
25°	1103	1109	1118	1134	1143	507
35°	911	915	925	944	954	568
45°	680	681	691	705	711	524
55°	454	453	455	463	469	407
65°	273	272	268	270	274	274
75°	160	153	145	142	146	169
85°	61	61	52	48	50	65
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1319.2	1319.2	1319.2	1319.2	1319.2
2.5°	1319.2	1316.4	1315.7	1320.6	1323.4
5°	1313.6	1310.8	1310.1	1316.4	1319.2
7.5°	1302.5	1300.4	1301.1	1308.1	1311.5
10°	1286.4	1285.7	1287.1	1294.8	1299.0
12.5°	1267.6	1266.9	1269.7	1278.1	1283.6
15°	1242.5	1242.5	1246.7	1257.8	1264.8
17.5°	1212.5	1214.6	1220.9	1232.1	1239.7
20°	1180.5	1182.5	1190.9	1203.5	1212.5
22.5°	1144.9	1147.7	1156.0	1171.4	1179.1
25°	1103.1	1108.6	1118.4	1133.7	1142.8
27.5°	1059.8	1066.1	1075.2	1094.0	1102.4
30°	1012.4	1016.6	1029.8	1047.3	1057.0
32.5°	962.2	966.4	977.6	998.5	1006.8
35°	910.6	914.8	925.3	944.1	953.8
37.5°	854.8	858.3	870.9	885.5	896.0
40°	796.3	801.1	809.5	826.9	836.0
42.5°	739.1	741.2	750.2	767.7	774.7
45°	680.5	681.2	691.0	704.9	711.2
47.5°	619.9	621.3	633.1	641.5	647.8
50°	563.4	564.1	572.4	580.1	587.1
52.5°	506.9	506.9	511.1	519.5	528.5
55°	453.9	453.2	455.3	463.0	468.6
57.5°	403.7	403.0	405.8	410.7	414.9
60°	354.9	353.5	356.3	359.1	364.7
62.5°	311.7	313.1	309.6	313.8	317.9
65°	273.3	271.9	267.7	269.8	274.0
67.5°	240.6	238.5	231.5	232.9	237.8
70°	210.6	206.4	198.7	198.7	202.2
72.5°	183.4	179.2	169.4	170.1	171.5
75°	160.4	153.4	145.0	142.2	145.7
77.5°	135.3	129.7	122.0	119.9	121.3
80°	111.6	107.4	98.3	95.5	97.6
82.5°	88.6	85.1	74.6	72.5	73.2
85°	61.4	60.7	52.3	48.1	49.5
87.5°	32.8	33.5	27.2	24.4	25.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)