

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: P292037

Luminaire Tested: **22GR-LD5-28-F125-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292037  
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-L93050-W2A1-U-3000K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2270.0 lumens  
Efficiency: N/A  
Efficacy: 100.9 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

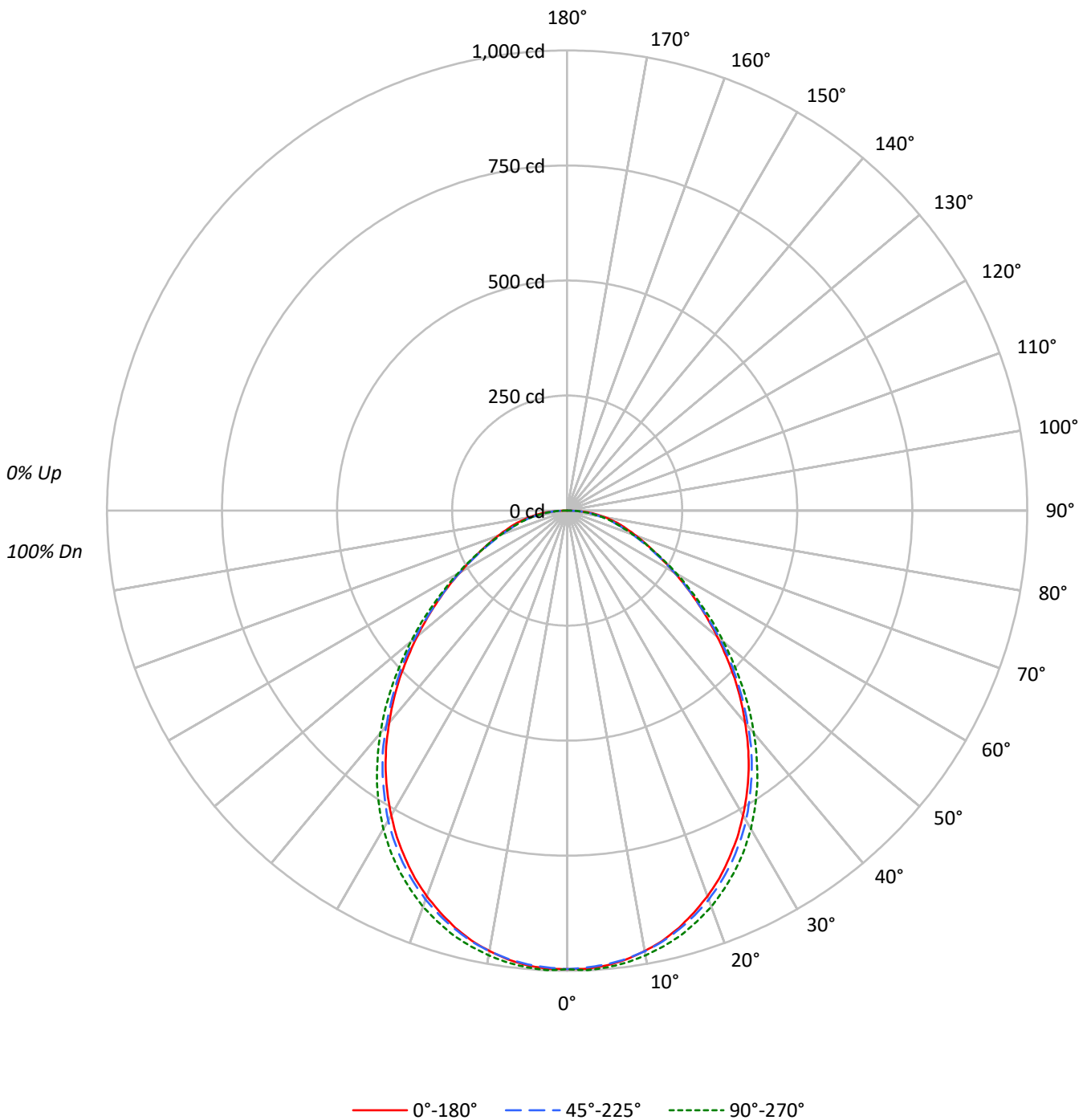
Input Watts (W): 22.506  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	45°	90°
0°	2682	2682	2682
5°	2680	2673	2692
10°	2655	2657	2681
15°	2615	2624	2662
20°	2554	2576	2623
25°	2474	2508	2563
30°	2376	2417	2481
35°	2260	2296	2367
40°	2113	2148	2218
45°	1956	1987	2044
50°	1782	1810	1857
55°	1609	1613	1661
60°	1443	1448	1483
65°	1315	1288	1318
70°	1252	1181	1201
75°	1259	1140	1145
80°	1306	1151	1142
85°	1433	1220	1155



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.1	4.1
10°-20°	266.0	11.7
20°-30°	389.3	17.1
30°-40°	437.7	19.3
40°-50°	403.6	17.8
50°-60°	311.1	13.7
60°-70°	205.3	9.0
70°-80°	119.5	5.3
80°-90°	43.5	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°	749.4	33.0
0°-40°	1187.0	52.3
0°-60°	1901.7	83.8
0°-90°	2270.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2270.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	996	996	996	996	996	
5°	992	990	990	994	996	94
15°	939	939	942	950	956	264
25°	833	838	845	856	863	383
35°	688	691	699	713	720	429
45°	514	515	522	532	537	396
55°	343	342	344	350	354	308
65°	206	205	202	204	207	207
75°	121	116	110	107	110	128
85°	46	46	40	36	37	49
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	996.5	996.5	996.5	996.5	996.5
2.5°	996.5	994.4	993.9	997.6	999.7
5°	992.3	990.2	989.7	994.4	996.5
7.5°	983.9	982.3	982.8	988.1	990.7
10°	971.8	971.3	972.3	978.1	981.3
12.5°	957.6	957.0	959.1	965.5	969.7
15°	938.6	938.6	941.8	950.2	955.5
17.5°	916.0	917.5	922.3	930.7	936.5
20°	891.7	893.3	899.6	909.1	916.0
22.5°	864.9	867.0	873.3	884.9	890.7
25°	833.3	837.5	844.8	856.4	863.3
27.5°	800.6	805.3	812.2	826.4	832.7
30°	764.8	767.9	778.0	791.1	798.5
32.5°	726.9	730.0	738.5	754.3	760.6
35°	687.9	691.0	698.9	713.2	720.5
37.5°	645.7	648.4	657.9	668.9	676.8
40°	601.5	605.2	611.5	624.7	631.5
42.5°	558.3	559.9	566.7	579.9	585.2
45°	514.1	514.6	522.0	532.5	537.2
47.5°	468.2	469.3	478.3	484.6	489.3
50°	425.6	426.1	432.4	438.2	443.5
52.5°	382.9	382.9	386.1	392.4	399.2
55°	342.9	342.4	343.9	349.7	354.0
57.5°	305.0	304.4	306.5	310.2	313.4
60°	268.1	267.0	269.1	271.3	275.5
62.5°	235.4	236.5	233.9	237.0	240.2
65°	206.5	205.4	202.3	203.8	207.0
67.5°	181.7	180.1	174.9	175.9	179.6
70°	159.1	155.9	150.1	150.1	152.7
72.5°	138.5	135.4	128.0	128.5	129.6
75°	121.1	115.9	109.6	107.4	110.1
77.5°	102.2	98.0	92.2	90.6	91.6
80°	84.3	81.1	74.3	72.2	73.7
82.5°	66.9	64.3	56.4	54.8	55.3
85°	46.4	45.8	39.5	36.3	37.4
87.5°	24.8	25.3	20.5	18.4	19.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)