

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: P291978

Luminaire Tested: **22GR-LD5-24-F125-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P291978  
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-LD5-24-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: 2512.0 lumens  
Efficiency: N/A  
Efficacy: 135.1 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

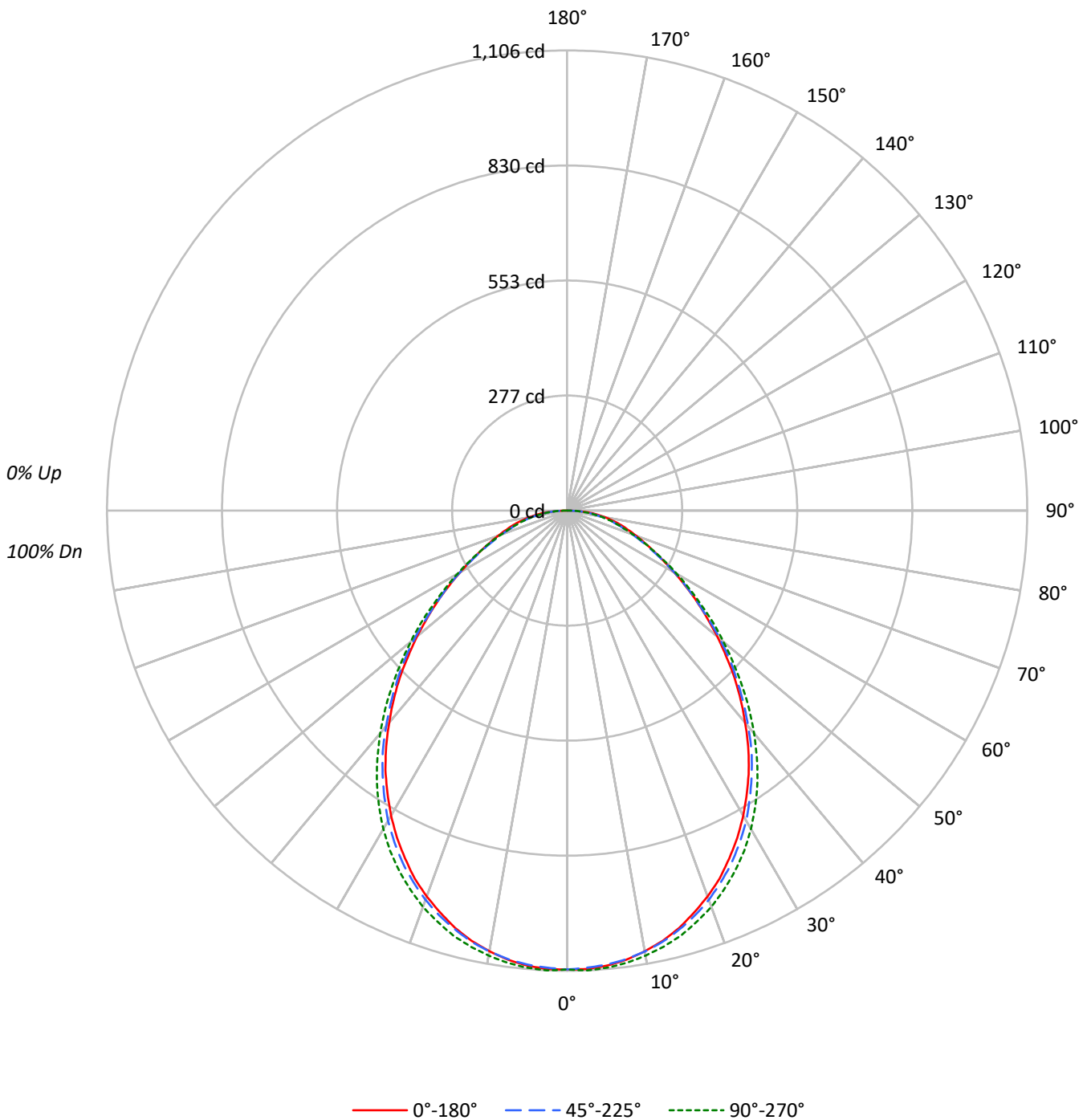
Input Watts (W): 18.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2968	2968	2968
5°	2966	2958	2979
10°	2939	2940	2967
15°	2894	2903	2946
20°	2826	2851	2903
25°	2738	2776	2836
30°	2630	2675	2746
35°	2501	2541	2620
40°	2338	2377	2455
45°	2165	2198	2262
50°	1972	2003	2055
55°	1780	1786	1838
60°	1597	1603	1640
65°	1455	1425	1459
70°	1385	1307	1330
75°	1394	1260	1266
80°	1446	1274	1265
85°	1584	1349	1278



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.2	4.1
10°-20°	294.3	11.7
20°-30°	430.8	17.1
30°-40°	484.3	19.3
40°-50°	446.6	17.8
50°-60°	344.2	13.7
60°-70°	227.2	9.0
70°-80°	132.2	5.3
80°-90°	48.2	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°	829.3	33.0
0°-40°	1313.6	52.3
0°-60°	2104.5	83.8
0°-90°	2512.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2512.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1103	1103	1103	1103	1103	
5°	1098	1096	1095	1100	1103	104
15°	1039	1039	1042	1052	1057	292
25°	922	927	935	948	955	424
35°	761	765	774	789	797	475
45°	569	570	578	589	594	438
55°	379	379	381	387	392	340
65°	228	227	224	226	229	229
75°	134	128	121	119	122	141
85°	51	51	44	40	41	54
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1102.8	1102.8	1102.8	1102.8	<i>1102.8</i>
2.5°	<i>1102.8</i>	<i>1100.4</i>	<i>1099.9</i>	<i>1103.9</i>	<i>1106.3</i>
5°	1098.1	1095.8	1095.2	1100.4	<i>1102.8</i>
7.5°	1088.8	1087.0	1087.6	1093.5	<i>1096.4</i>
10°	1075.4	1074.8	1076.0	1082.4	<i>1085.9</i>
12.5°	1059.6	1059.1	1061.4	1068.4	<i>1073.1</i>
15°	1038.7	1038.7	1042.2	1051.5	<i>1057.3</i>
17.5°	1013.6	1015.3	1020.6	1029.9	<i>1036.3</i>
20°	986.8	988.5	995.5	1006.0	<i>1013.6</i>
22.5°	957.1	959.4	966.4	979.2	<i>985.6</i>
25°	922.1	926.8	934.9	947.7	<i>955.3</i>
27.5°	886.0	891.2	898.8	914.5	<i>921.5</i>
30°	846.3	849.8	860.9	875.5	<i>883.6</i>
32.5°	804.4	807.8	817.2	834.7	<i>841.7</i>
35°	761.2	764.7	773.5	789.2	<i>797.4</i>
37.5°	714.6	717.5	728.0	740.2	<i>749.0</i>
40°	665.6	669.7	676.7	691.3	<i>698.9</i>
42.5°	617.8	619.6	627.2	641.7	<i>647.6</i>
45°	568.9	569.5	577.6	589.3	<i>594.5</i>
47.5°	518.2	519.3	529.2	536.2	<i>541.5</i>
50°	471.0	471.5	478.5	484.9	<i>490.8</i>
52.5°	423.7	423.7	427.2	434.2	<i>441.8</i>
55°	379.4	378.9	380.6	387.0	<i>391.7</i>
57.5°	337.5	336.9	339.2	343.3	<i>346.8</i>
60°	296.7	295.5	297.8	300.2	<i>304.8</i>
62.5°	260.5	261.7	258.8	262.3	<i>265.8</i>
65°	228.5	227.3	223.8	225.6	<i>229.1</i>
67.5°	201.1	199.3	193.5	194.7	<i>198.8</i>
70°	176.0	172.5	166.1	166.1	<i>169.0</i>
72.5°	153.3	149.8	141.6	142.2	<i>143.4</i>
75°	134.1	128.2	121.2	118.9	<i>121.8</i>
77.5°	113.1	108.4	102.0	100.3	<i>101.4</i>
80°	93.3	89.8	82.2	79.9	<i>81.6</i>
82.5°	74.0	71.1	62.4	60.6	<i>61.2</i>
85°	51.3	50.7	43.7	40.2	<i>41.4</i>
87.5°	27.4	28.0	22.7	20.4	<i>21.6</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)