

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: P293215

Luminaire Tested: **24GR-LD5-34-F125-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293215  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33304)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24GR-LD5-34-F125-UNV-L82765-W2A1-U-2700K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (336) 80 CRI LEDS TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3203.0 lumens  
Efficiency: N/A  
Efficacy: 139.4 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.27  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

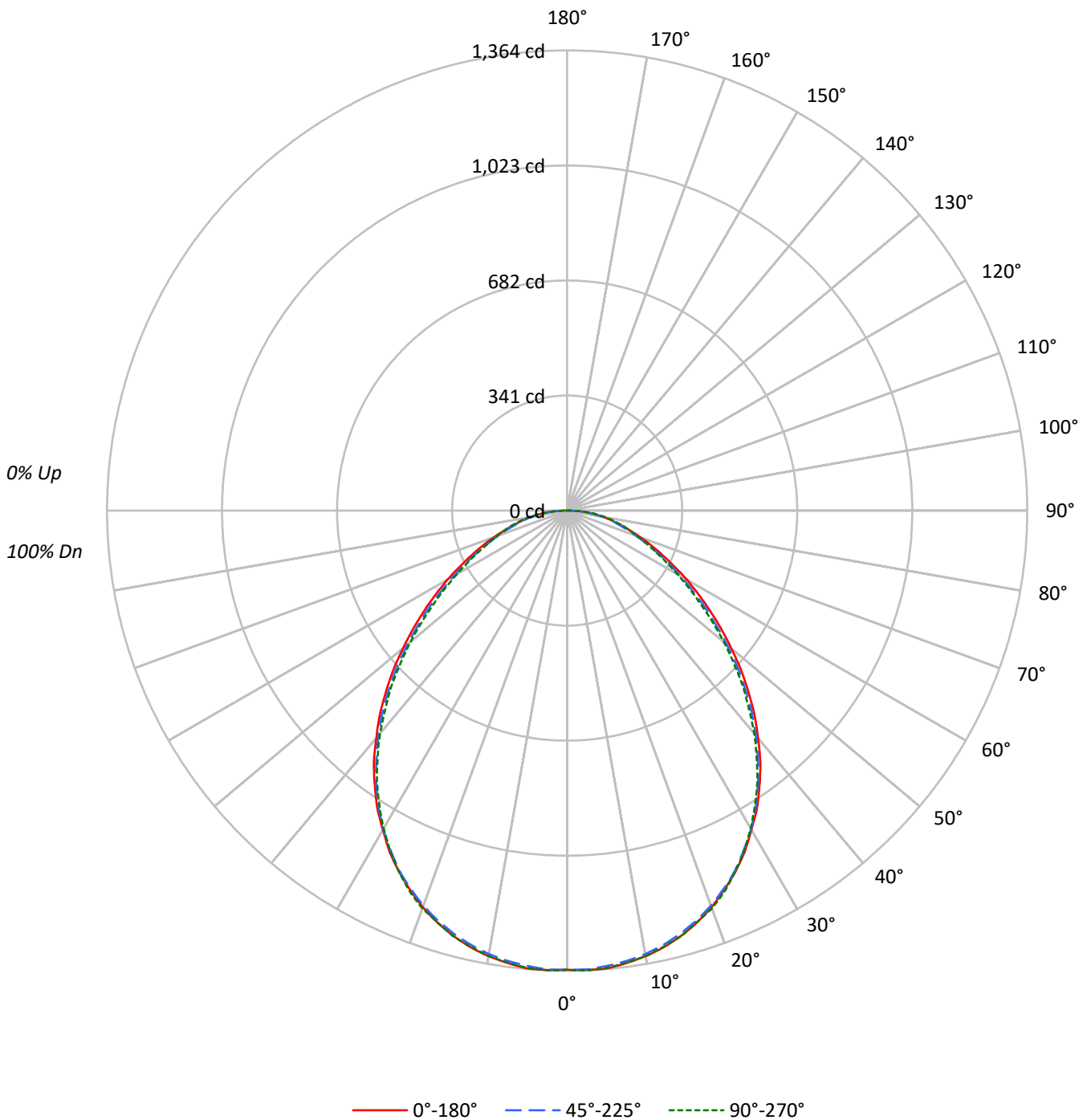
Input Watts (W): 22.971  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	73	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28

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

	0°	45°	90°
0°	1832	1832	1832
5°	1840	1830	1837
10°	1832	1824	1832
15°	1818	1808	1819
20°	1791	1784	1797
25°	1753	1748	1752
30°	1697	1694	1690
35°	1633	1621	1614
40°	1546	1528	1516
45°	1446	1419	1402
50°	1329	1293	1271
55°	1212	1167	1133
60°	1101	1041	1014
65°	991	936	920
70°	908	849	873
75°	848	809	869
80°	841	826	908
85°	858	866	990



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	128.8	4.0
10°-20°	366.3	11.4
20°-30°	541.1	16.9
30°-40°	615.2	19.2
40°-50°	574.5	17.9
50°-60°	446.8	13.9
60°-70°	296.4	9.3
70°-80°	171.5	5.4
80°-90°	62.4	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°	1036.2	32.4
0°-40°	1651.4	51.6
0°-60°	2672.6	83.4
0°-90°	3203.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3203.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1361	1361	1361	1361	1361	
5°	1362	1355	1355	1357	1360	129
15°	1305	1299	1298	1298	1306	368
25°	1180	1176	1178	1175	1180	543
35°	994	989	987	980	983	621
45°	760	754	746	736	737	586
55°	517	509	498	485	483	463
65°	311	302	294	288	289	311
75°	163	159	156	163	167	175
85°	56	55	56	64	64	60
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1361.3	1361.3	1361.3	1361.3	<i>1361.3</i>
2.5°	<i>1363.3</i>	<i>1359.3</i>	<i>1361.3</i>	<i>1359.8</i>	<i>1364.3</i>
5°	1362.3	1355.3	1354.8	1357.3	<i>1360.3</i>
7.5°	1352.8	1345.3	1346.8	1346.8	<i>1351.8</i>
10°	1341.2	1333.7	1334.7	1335.2	<i>1340.7</i>
12.5°	1325.7	1318.2	1318.7	1318.2	<i>1323.7</i>
15°	1305.2	1298.7	1298.2	1297.7	<i>1306.2</i>
17.5°	1280.2	1271.2	1274.2	1274.7	<i>1279.2</i>
20°	1251.1	1244.1	1246.1	1245.6	<i>1255.1</i>
22.5°	1216.6	1211.6	1213.1	1212.1	<i>1221.1</i>
25°	1180.5	1175.5	1177.5	1175.0	<i>1180.0</i>
27.5°	1140.0	1136.5	1134.5	1133.0	<i>1136.5</i>
30°	1092.4	1090.4	1090.4	1083.9	<i>1087.9</i>
32.5°	1047.4	1040.9	1040.9	1038.4	<i>1035.9</i>
35°	994.3	989.3	986.8	979.8	<i>982.8</i>
37.5°	941.2	929.7	928.7	923.2	<i>923.2</i>
40°	880.1	873.6	870.1	864.1	<i>863.1</i>
42.5°	822.1	815.6	809.6	799.5	<i>797.5</i>
45°	760.0	754.0	746.0	736.5	<i>737.0</i>
47.5°	698.4	689.9	682.4	670.9	<i>669.4</i>
50°	634.8	628.8	617.8	607.8	<i>607.3</i>
52.5°	575.2	565.7	555.7	543.7	<i>543.7</i>
55°	516.7	509.2	497.6	484.6	<i>483.1</i>
57.5°	460.6	453.6	440.6	431.1	<i>428.6</i>
60°	409.0	399.0	387.0	379.0	<i>377.0</i>
62.5°	357.5	348.5	339.4	331.4	<i>330.9</i>
65°	311.4	301.9	293.9	288.4	<i>288.9</i>
67.5°	269.9	261.8	252.8	251.3	<i>251.8</i>
70°	230.8	222.3	215.8	219.3	<i>221.8</i>
72.5°	193.8	189.2	184.7	189.7	<i>193.3</i>
75°	163.2	159.2	155.7	162.7	<i>167.2</i>
77.5°	135.2	132.2	131.7	137.7	<i>141.7</i>
80°	108.6	105.1	106.6	113.6	<i>117.2</i>
82.5°	82.6	80.1	80.6	89.1	<i>91.6</i>
85°	55.6	54.6	56.1	63.6	<i>64.1</i>
87.5°	29.5	29.5	30.5	35.0	<i>33.5</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)