

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: P292112

Luminaire Tested: **22GR-LD5-40-F125-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292112  
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-LD5-40-F125-UNV-L92765-W2A1-U-5000K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3770.0 lumens  
Efficiency: N/A  
Efficacy: 113.9 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

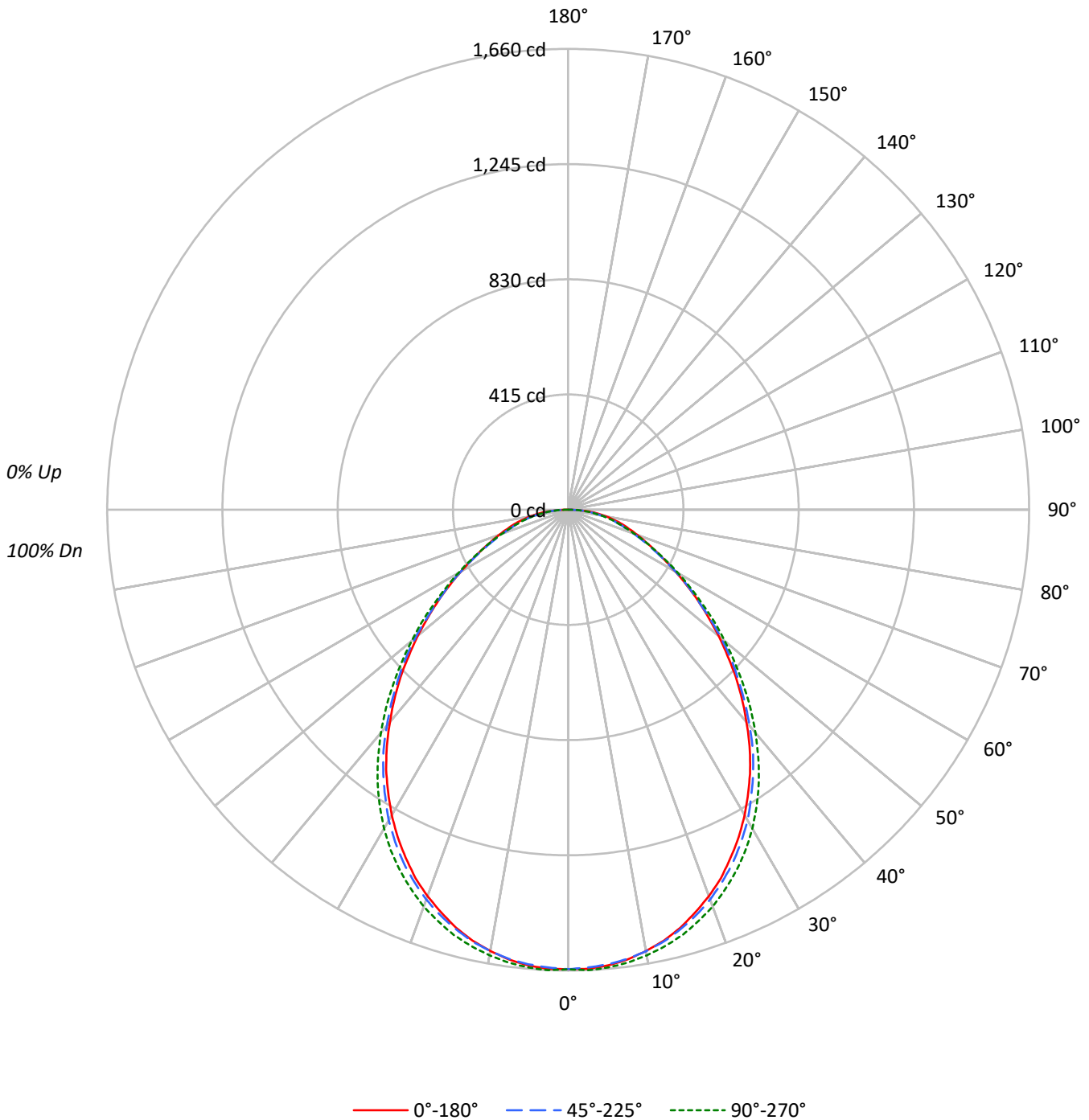
Input Watts (W): 33.108  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4454	4454	4454
5°	4452	4440	4471
10°	4410	4412	4453
15°	4343	4357	4421
20°	4241	4279	4356
25°	4109	4166	4257
30°	3947	4015	4121
35°	3753	3813	3931
40°	3509	3568	3684
45°	3249	3299	3396
50°	2959	3007	3083
55°	2672	2680	2758
60°	2397	2406	2462
65°	2183	2139	2189
70°	2079	1961	1996
75°	2092	1892	1901
80°	2170	1911	1898
85°	2377	2025	1917



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	156.4	4.1
10°-20°	441.7	11.7
20°-30°	646.5	17.1
30°-40°	726.9	19.3
40°-50°	670.3	17.8
50°-60°	516.6	13.7
60°-70°	340.9	9.0
70°-80°	198.4	5.3
80°-90°	72.3	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°	1244.6	33.0
0°-40°	1971.4	52.3
0°-60°	3158.4	83.8
0°-90°	3770.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3770.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1655	1655	1655	1655	1655	
5°	1648	1644	1644	1652	1655	156
15°	1559	1559	1564	1578	1587	439
25°	1384	1391	1403	1422	1434	637
35°	1142	1148	1161	1184	1197	712
45°	854	855	867	884	892	657
55°	570	569	571	581	588	511
65°	343	341	336	338	344	344
75°	201	192	182	178	183	212
85°	77	76	66	60	62	81
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1655.0	1655.0	1655.0	1655.0	1655.0
2.5°	1655.0	1651.5	1650.7	1656.8	1660.3
5°	1648.0	1644.5	1643.7	1651.5	1655.0
7.5°	1634.1	1631.4	1632.3	1641.0	1645.4
10°	1613.9	1613.1	1614.8	1624.4	1629.7
12.5°	1590.3	1589.4	1592.9	1603.4	1610.4
15°	1558.8	1558.8	1564.1	1578.1	1586.8
17.5°	1521.2	1523.8	1531.7	1545.7	1555.3
20°	1481.0	1483.6	1494.1	1509.8	1521.2
22.5°	1436.4	1439.9	1450.4	1469.6	1479.2
25°	1383.9	1390.9	1403.1	1422.4	1433.7
27.5°	1329.6	1337.5	1348.9	1372.5	1383.0
30°	1270.2	1275.4	1292.0	1313.9	1326.1
32.5°	1207.2	1212.4	1226.4	1252.7	1263.2
35°	1142.4	1147.7	1160.8	1184.4	1196.7
37.5°	1072.5	1076.8	1092.6	1110.9	1124.1
40°	999.0	1005.1	1015.6	1037.5	1048.8
42.5°	927.2	929.9	941.2	963.1	971.9
45°	853.8	854.6	866.9	884.4	892.3
47.5°	777.7	779.4	794.3	804.8	812.7
50°	706.8	707.7	718.2	727.8	736.5
52.5°	636.0	636.0	641.2	651.7	663.1
55°	569.5	568.6	571.2	580.8	587.8
57.5°	506.5	505.6	509.1	515.2	520.5
60°	445.3	443.5	447.0	450.5	457.5
62.5°	391.0	392.8	388.4	393.6	398.9
65°	342.9	341.2	335.9	338.5	343.8
67.5°	301.8	299.2	290.4	292.2	298.3
70°	264.2	258.9	249.3	249.3	253.7
72.5°	230.1	224.8	212.6	213.4	215.2
75°	201.2	192.4	182.0	178.5	182.8
77.5°	169.7	162.7	153.1	150.5	152.2
80°	140.0	134.7	123.3	119.8	122.5
82.5°	111.1	106.7	93.6	91.0	91.8
85°	77.0	76.1	65.6	60.4	62.1
87.5°	41.1	42.0	34.1	30.6	32.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)