

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: P292011

Luminaire Tested: **22GR-LD5-40-F125-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292011  
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-L82765-W2A1-U-3500K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3983.0 lumens  
Efficiency: N/A  
Efficacy: 122.4 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

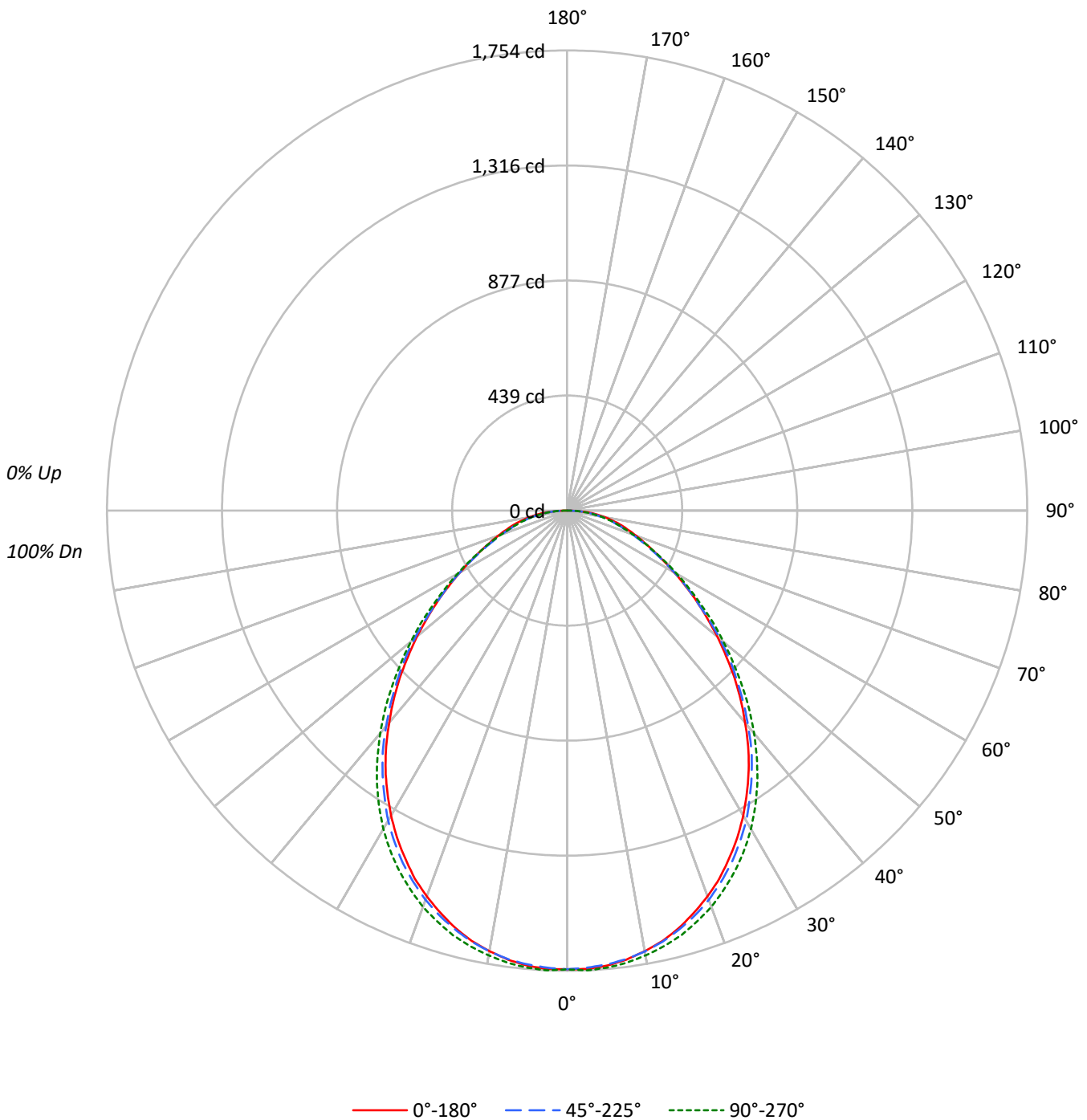
Input Watts (W): 32.55  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4705	4705	4705
5°	4703	4691	4723
10°	4659	4662	4705
15°	4588	4603	4671
20°	4481	4520	4603
25°	4341	4401	4497
30°	4170	4241	4354
35°	3965	4029	4153
40°	3707	3769	3893
45°	3433	3486	3588
50°	3126	3177	3258
55°	2822	2831	2914
60°	2532	2542	2601
65°	2307	2260	2313
70°	2196	2072	2109
75°	2210	1998	2009
80°	2292	2019	2005
85°	2510	2140	2025



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	165.2	4.1
10°-20°	466.7	11.7
20°-30°	683.0	17.1
30°-40°	767.9	19.3
40°-50°	708.2	17.8
50°-60°	545.8	13.7
60°-70°	360.2	9.0
70°-80°	209.6	5.3
80°-90°	76.4	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°	1314.9	33.0
0°-40°	2082.8	52.3
0°-60°	3336.8	83.8
0°-90°	3983.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3983.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1749	1749	1749	1749	1749	
5°	1741	1738	1736	1745	1749	165
15°	1647	1647	1652	1667	1676	463
25°	1462	1470	1482	1503	1515	672
35°	1207	1212	1226	1251	1264	753
45°	902	903	916	934	943	695
55°	602	601	604	614	621	540
65°	362	360	355	358	363	363
75°	213	203	192	188	193	224
85°	81	80	69	64	66	86
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1748.6	1748.6	1748.6	1748.6	1748.6
2.5°	1748.6	1744.9	1743.9	1750.4	1754.1
5°	1741.2	1737.5	1736.5	1744.9	1748.6
7.5°	1726.4	1723.6	1724.5	1733.8	1738.4
10°	1705.1	1704.2	1706.0	1716.2	1721.8
12.5°	1680.2	1679.2	1682.9	1694.0	1701.4
15°	1646.9	1646.9	1652.4	1667.2	1676.5
17.5°	1607.2	1609.9	1618.2	1633.0	1643.2
20°	1564.6	1567.4	1578.5	1595.1	1607.2
22.5°	1517.5	1521.2	1532.3	1552.6	1562.8
25°	1462.1	1469.5	1482.4	1502.7	1514.7
27.5°	1404.8	1413.1	1425.1	1450.0	1461.1
30°	1341.9	1347.5	1365.0	1388.1	1401.1
32.5°	1275.4	1280.9	1295.7	1323.4	1334.5
35°	1207.0	1212.5	1226.4	1251.3	1264.3
37.5°	1133.0	1137.7	1154.3	1173.7	1187.6
40°	1055.4	1061.9	1073.0	1096.1	1108.1
42.5°	979.6	982.4	994.4	1017.5	1026.8
45°	902.0	902.9	915.9	934.3	942.7
47.5°	821.6	823.4	839.2	850.2	858.6
50°	746.7	747.7	758.8	768.9	778.2
52.5°	671.9	671.9	677.4	688.5	700.5
55°	601.6	600.7	603.5	613.7	621.1
57.5°	535.1	534.2	537.9	544.3	549.9
60°	470.4	468.6	472.3	476.0	483.3
62.5°	413.1	415.0	410.3	415.9	421.4
65°	362.3	360.4	354.9	357.7	363.2
67.5°	318.8	316.1	306.8	308.7	315.1
70°	279.1	273.6	263.4	263.4	268.0
72.5°	243.1	237.5	224.6	225.5	227.3
75°	212.6	203.3	192.2	188.5	193.2
77.5°	179.3	171.9	161.7	159.0	160.8
80°	147.9	142.3	130.3	126.6	129.4
82.5°	117.4	112.8	98.9	96.1	97.0
85°	81.3	80.4	69.3	63.8	65.6
87.5°	43.4	44.4	36.0	32.3	34.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)