

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: P292293

Luminaire Tested: **22GR-LD5-32-A-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292293  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33296)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22GR-LD5-32-A-UNV-L92765-W2A1-U-6500K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH A LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3050.0 lumens  
Efficiency: N/A  
Efficacy: 118.8 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.25  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

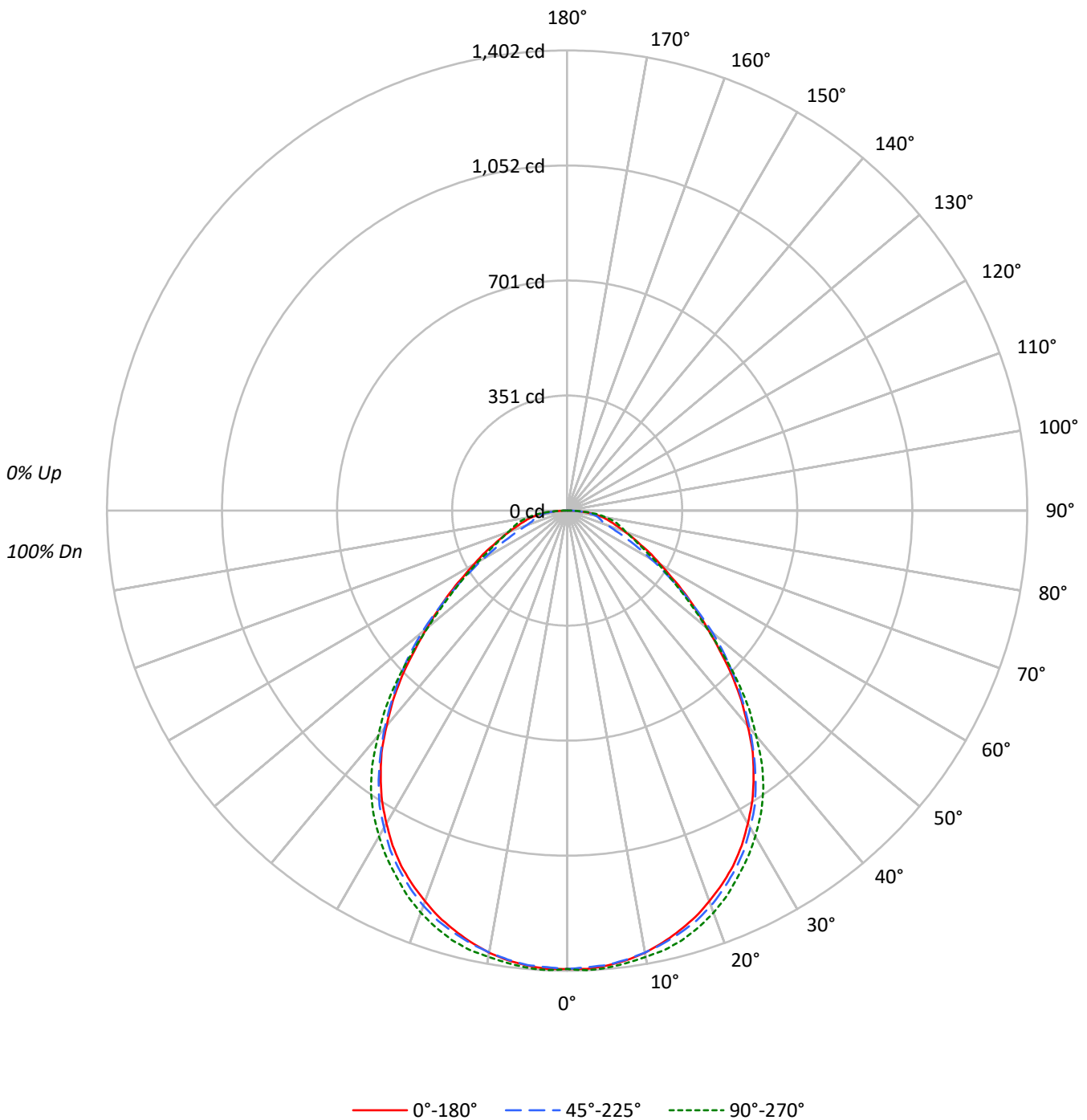
Input Watts (W): 25.668  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86					86			
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74					74			
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64					64			
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56					56			
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49					49			
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44					44			
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39					39			
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36					36			
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32					32			
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	30					30			

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

	0°	45°	90°
0°	3759	3759	3759
5°	3760	3754	3777
10°	3737	3735	3772
15°	3690	3709	3775
20°	3626	3669	3734
25°	3549	3589	3654
30°	3420	3467	3562
35°	3253	3290	3423
40°	3007	3039	3146
45°	2701	2750	2793
50°	2336	2418	2312
55°	2038	1985	1958
60°	1765	1589	1696
65°	1577	1247	1523
70°	1463	1033	1502
75°	1461	1092	1668
80°	1616	1375	1881
85°	1689	1491	2124



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	132.2	4.3
10°-20°	376.5	12.3
20°-30°	556.8	18.3
30°-40°	628.3	20.6
40°-50°	553.9	18.2
50°-60°	380.0	12.5
60°-70°	224.2	7.4
70°-80°	139.9	4.6
80°-90°	58.3	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°	1065.4	34.9
0°-40°	1693.7	55.5
0°-60°	2627.6	86.1
0°-90°	3050.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3050.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1397	1397	1397	1397	1397	
5°	1392	1389	1390	1395	1398	132
15°	1324	1326	1332	1348	1355	373
25°	1195	1200	1209	1224	1231	549
35°	990	999	1002	1026	1042	617
45°	710	713	722	727	734	545
55°	434	424	423	409	417	390
65°	248	218	196	226	239	250
75°	140	126	105	147	160	151
85°	55	51	48	63	69	59
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1396.8	1396.8	1396.8	1396.8	<i>1396.8</i>
2.5°	<i>1397.5</i>	<i>1394.0</i>	<i>1392.5</i>	<i>1398.2</i>	<i>1401.8</i>
5°	1391.8	1389.0	1389.7	1394.7	<i>1398.2</i>
7.5°	1381.9	1379.8	1379.8	1386.9	<i>1390.4</i>
10°	1367.7	1367.0	1367.0	1375.5	<i>1380.5</i>
12.5°	1347.8	1348.5	1351.4	1362.7	<i>1371.2</i>
15°	1324.4	1325.8	1331.5	1347.8	<i>1354.9</i>
17.5°	1298.8	1298.8	1310.2	1323.0	<i>1331.5</i>
20°	1266.2	1268.3	1281.1	1295.3	<i>1303.8</i>
22.5°	1232.8	1236.4	1247.0	1263.4	<i>1271.2</i>
25°	1195.2	1199.5	1208.7	1224.3	<i>1230.7</i>
27.5°	1151.2	1156.9	1166.8	1178.2	<i>1191.7</i>
30°	1100.8	1109.3	1115.7	1131.3	<i>1146.2</i>
32.5°	1049.7	1057.5	1064.6	1081.0	<i>1098.0</i>
35°	990.1	998.6	1001.5	1025.6	<i>1041.9</i>
37.5°	929.1	932.6	934.0	958.2	<i>975.9</i>
40°	856.0	863.1	865.2	884.3	<i>895.7</i>
42.5°	785.7	788.5	792.8	807.0	<i>820.5</i>
45°	709.8	713.3	722.5	726.8	<i>733.9</i>
47.5°	630.3	640.9	651.6	638.1	<i>638.8</i>
50°	557.9	566.4	577.7	552.2	<i>552.2</i>
52.5°	493.3	497.5	498.2	477.0	<i>481.2</i>
55°	434.4	423.7	423.0	408.8	<i>417.3</i>
57.5°	375.5	361.3	356.3	352.0	<i>362.0</i>
60°	327.9	302.4	295.3	301.6	<i>315.1</i>
62.5°	288.9	256.2	242.7	259.1	<i>271.1</i>
65°	247.7	217.9	195.9	226.4	<i>239.2</i>
67.5°	215.8	187.4	159.0	202.3	<i>211.5</i>
70°	186.0	164.0	131.3	183.8	<i>190.9</i>
72.5°	161.8	144.8	113.6	166.1	<i>174.6</i>
75°	140.5	126.3	105.0	146.9	<i>160.4</i>
77.5°	123.5	107.9	97.9	127.0	<i>143.4</i>
80°	104.3	88.7	88.7	106.5	<i>121.4</i>
82.5°	82.3	69.6	71.7	86.6	<i>97.2</i>
85°	54.7	51.1	48.3	63.2	<i>68.8</i>
87.5°	27.7	28.4	25.6	32.6	<i>33.4</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)