

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: P292193

Luminaire Tested: **22GR-LD5-32-A-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292193  
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-L82765-W2A1-U-5500K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH A LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3341.0 lumens  
Efficiency: N/A  
Efficacy: 132.6 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

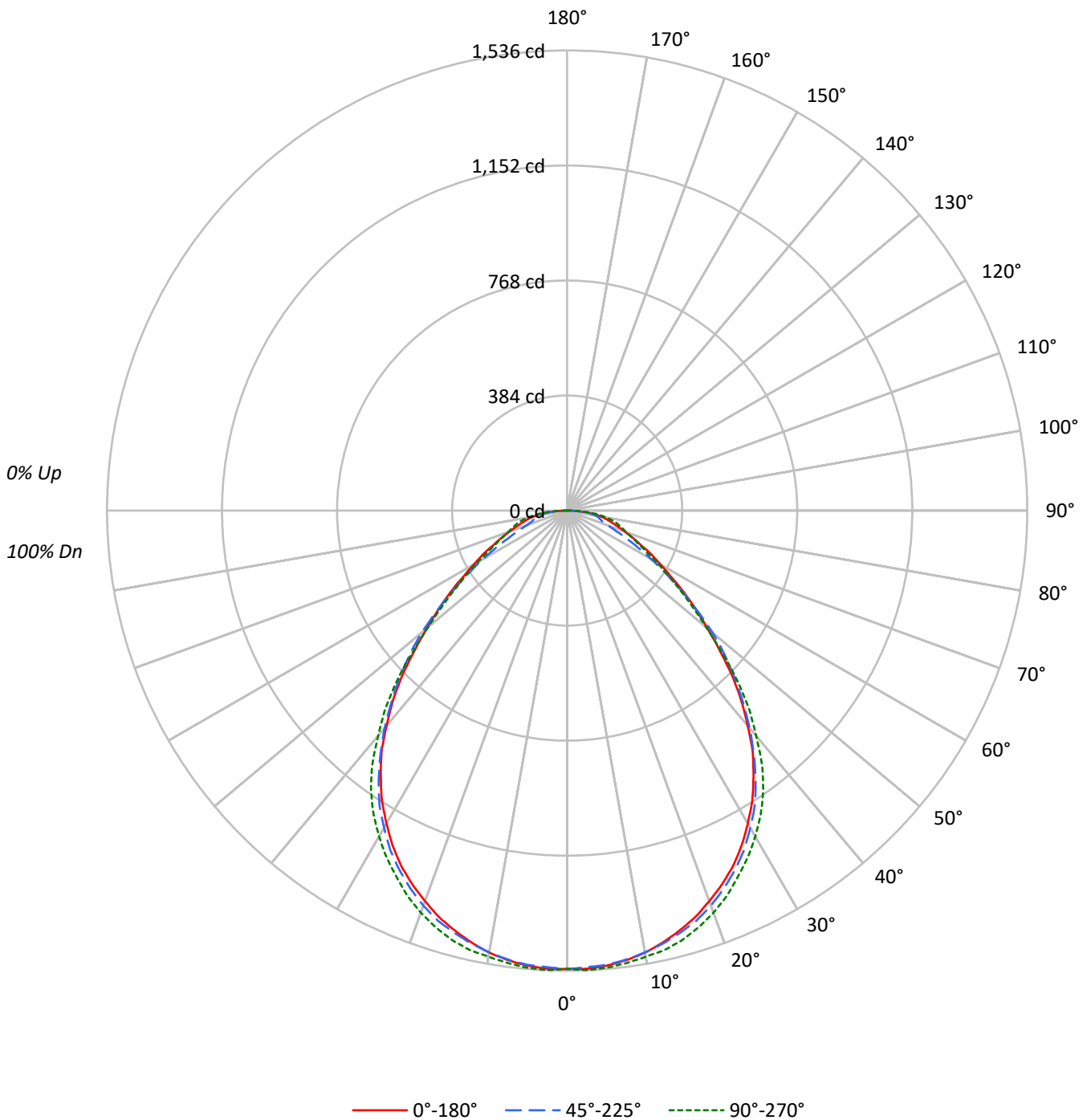
Input Watts (W): 25.203  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	45°	90°
0°	4117	4117	4117
5°	4118	4112	4137
10°	4094	4092	4132
15°	4042	4063	4135
20°	3972	4019	4090
25°	3888	3931	4003
30°	3747	3798	3901
35°	3563	3604	3749
40°	3294	3329	3447
45°	2959	3012	3059
50°	2558	2650	2532
55°	2232	2174	2145
60°	1933	1741	1858
65°	1727	1366	1668
70°	1603	1131	1645
75°	1600	1197	1827
80°	1771	1506	2060
85°	1849	1633	2328



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	144.8	4.3
10°-20°	412.4	12.3
20°-30°	609.9	18.3
30°-40°	688.2	20.6
40°-50°	606.7	18.2
50°-60°	416.2	12.5
60°-70°	245.6	7.4
70°-80°	153.3	4.6
80°-90°	63.9	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°	1167.1	34.9
0°-40°	1855.3	55.5
0°-60°	2878.2	86.1
0°-90°	3341.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3341.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1530	1530	1530	1530	1530	
5°	1525	1522	1522	1528	1532	145
15°	1451	1452	1458	1476	1484	409
25°	1309	1314	1324	1341	1348	601
35°	1085	1094	1097	1123	1141	676
45°	778	781	792	796	804	597
55°	476	464	463	448	457	427
65°	271	239	215	248	262	273
75°	154	138	115	161	176	165
85°	60	56	53	69	75	65
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1530.1	1530.1	1530.1	1530.1	1530.1
2.5°	1530.8	1526.9	1525.4	1531.6	1535.5
5°	1524.6	1521.5	1522.3	1527.7	1531.6
7.5°	1513.7	1511.4	1511.4	1519.2	1523.1
10°	1498.2	1497.4	1497.4	1506.7	1512.2
12.5°	1476.4	1477.2	1480.3	1492.7	1502.1
15°	1450.8	1452.3	1458.5	1476.4	1484.2
17.5°	1422.8	1422.8	1435.2	1449.2	1458.5
20°	1387.0	1389.3	1403.3	1418.9	1428.2
22.5°	1350.5	1354.3	1366.0	1383.9	1392.4
25°	1309.3	1313.9	1324.0	1341.1	1348.1
27.5°	1261.1	1267.3	1278.2	1290.6	1305.4
30°	1205.9	1215.2	1222.2	1239.3	1255.6
32.5°	1149.9	1158.4	1166.2	1184.1	1202.7
35°	1084.6	1093.9	1097.0	1123.4	1141.3
37.5°	1017.7	1021.6	1023.1	1049.6	1069.0
40°	937.6	945.4	947.7	968.7	981.2
42.5°	860.7	863.8	868.4	884.0	898.8
45°	777.5	781.4	791.5	796.1	803.9
47.5°	690.4	702.1	713.7	698.9	699.7
50°	611.1	620.4	632.9	604.9	604.9
52.5°	540.3	545.0	545.8	522.5	527.1
55°	475.8	464.1	463.4	447.8	457.2
57.5°	411.3	395.7	390.3	385.6	396.5
60°	359.2	331.2	323.4	330.4	345.2
62.5°	316.4	280.7	265.9	283.8	297.0
65°	271.3	238.7	214.6	248.0	262.0
67.5°	236.4	205.3	174.2	221.6	231.7
70°	203.7	179.6	143.8	201.4	209.1
72.5°	177.3	158.6	124.4	181.9	191.3
75°	153.9	138.4	115.1	160.9	175.7
77.5°	135.3	118.2	107.3	139.2	157.0
80°	114.3	97.2	97.2	116.6	132.9
82.5°	90.2	76.2	78.5	94.9	106.5
85°	59.9	56.0	52.9	69.2	75.4
87.5°	30.3	31.1	28.0	35.8	36.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)