

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: P296535

Luminaire Tested: **22RLN-LD5-44-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296535  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-085-11)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22RLN-LD5-44-UNV-L92765-W2A1-U-4000K  
Description: RLN LED 2x2 TUNABLE WHITE TROFFER  
WITH STANDARD LENS  
Light Source: (252) 90 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3873.0 lumens  
Efficiency: N/A  
Efficacy: 107.6 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.23 / 1.3  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

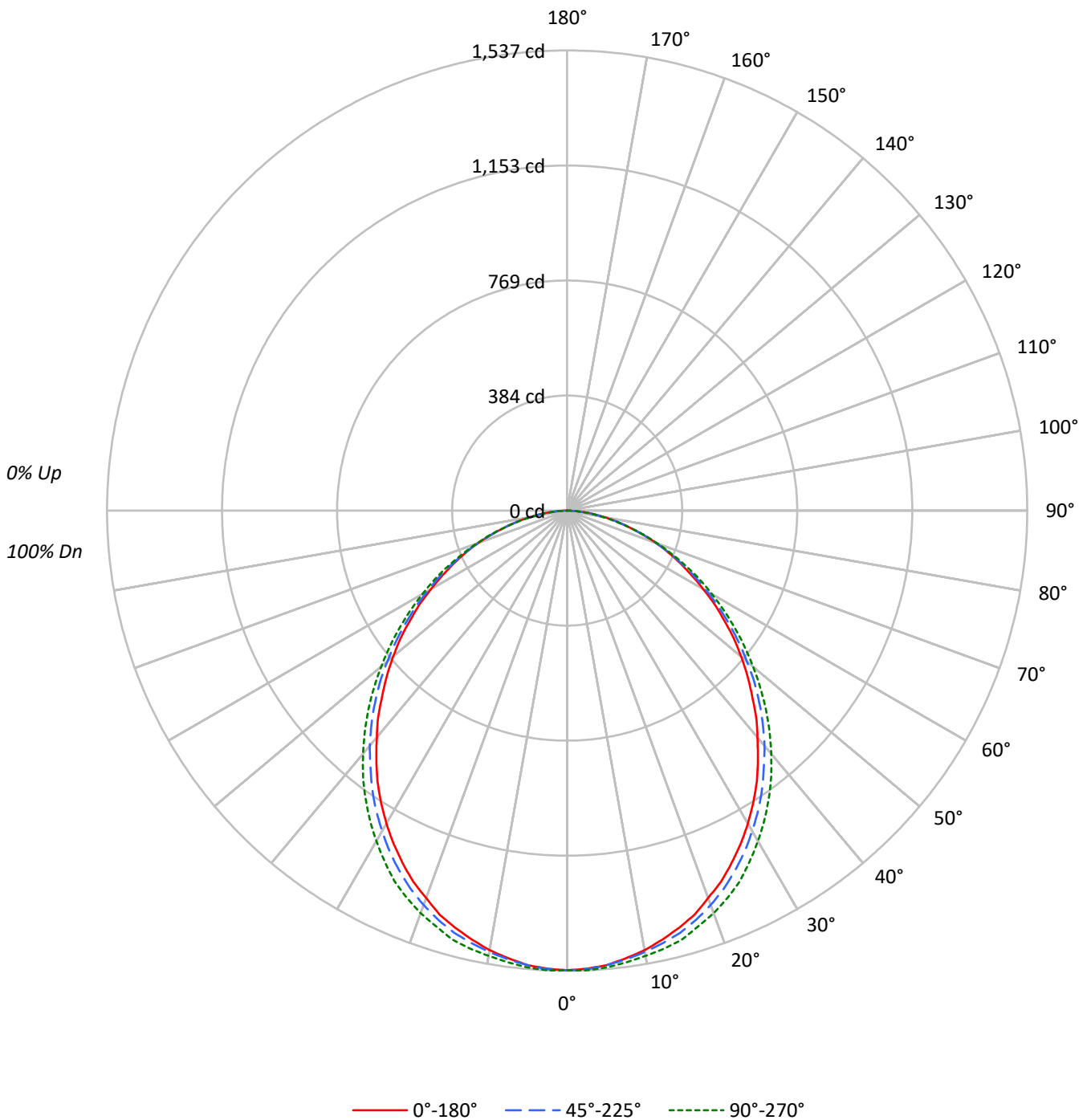
Input Watts (W): 35.991  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P296535

CATALOG NUMBER: 22RLN-LD5-44-UNV-L92765-W2A1-U-4000K

### Luminous Intensity Polar Plot





TEST NUMBER: P296535

CATALOG NUMBER: 22RLN-LD5-44-UNV-L92765-W2A1-U-4000K

**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	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	46
6	71	58	50	43	70	57	49	43	56	48	43	54	47	42	52	47	42	40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	38	36
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

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

	0°	45°	90°
0°	4131	4131	4131
5°	4116	4116	4136
10°	4074	4089	4126
15°	4019	4067	4131
20°	3943	4015	4098
25°	3859	3939	4054
30°	3750	3840	3960
35°	3629	3730	3857
40°	3473	3602	3724
45°	3322	3454	3572
50°	3177	3282	3395
55°	3008	3098	3207
60°	2827	2900	3004
65°	2656	2705	2791
70°	2477	2477	2522
75°	2208	2208	2208
80°	1945	1886	1886
85°	1550	1491	1371



TEST NUMBER: P296535

CATALOG NUMBER: 22RLN-LD5-44-UNV-L92765-W2A1-U-4000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	144.8	3.7
10°-20°	411.6	10.6
20°-30°	611.5	15.8
30°-40°	709.6	18.3
40°-50°	698.7	18.0
50°-60°	591.3	15.3
60°-70°	421.7	10.9
70°-80°	226.6	5.9
80°-90°	57.1	1.5
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°	1167.8	30.2
0°-40°	1877.5	48.5
0°-60°	3167.6	81.8
0°-90°	3873.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3873.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1535	1535	1535	1535	1535	
5°	1524	1524	1524	1529	1531	144
15°	1442	1446	1460	1473	1483	407
25°	1300	1303	1327	1352	1365	598
35°	1105	1106	1135	1162	1174	689
45°	873	879	908	929	938	675
55°	641	643	660	678	684	574
65°	417	417	425	433	438	414
75°	212	210	212	212	212	228
85°	50	48	48	44	44	60
90°	0	0	0	0	0	



TEST NUMBER: P296535

CATALOG NUMBER: 22RLN-LD5-44-UNV-L92765-W2A1-U-4000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1535.2	1535.2	1535.2	1535.2	1535.2
2.5°	1531.3	1531.3	1533.2	1535.2	1537.1
5°	1523.6	1523.6	1523.6	1529.4	1531.3
7.5°	1508.1	1510.1	1512.0	1517.8	1521.7
10°	1490.8	1492.7	1496.6	1506.2	1510.1
12.5°	1467.6	1473.4	1479.2	1492.7	1498.5
15°	1442.5	1446.3	1459.9	1473.4	1483.0
17.5°	1415.4	1417.4	1432.8	1452.1	1456.0
20°	1376.8	1382.6	1401.9	1421.2	1430.9
22.5°	1342.1	1345.9	1367.2	1392.3	1400.0
25°	1299.6	1303.4	1326.6	1351.7	1365.2
27.5°	1255.2	1259.0	1284.1	1311.2	1320.8
30°	1206.9	1210.8	1235.9	1264.8	1274.5
32.5°	1156.7	1160.6	1187.6	1212.7	1226.2
35°	1104.6	1106.5	1135.4	1162.5	1174.1
37.5°	1046.6	1052.4	1079.4	1106.5	1120.0
40°	988.7	994.5	1025.4	1050.5	1060.1
42.5°	934.6	942.3	967.4	990.6	1000.3
45°	872.8	878.6	907.6	928.8	938.5
47.5°	816.8	822.6	847.7	869.0	874.8
50°	758.9	762.8	784.0	803.3	811.0
52.5°	701.0	702.9	722.2	741.5	747.3
55°	641.1	643.0	660.4	677.8	683.6
57.5°	585.1	585.1	600.6	614.1	619.9
60°	525.2	525.2	538.8	552.3	558.1
62.5°	469.2	469.2	482.8	492.4	500.1
65°	417.1	417.1	424.8	432.6	438.3
67.5°	366.9	361.1	368.8	378.5	376.6
70°	314.8	309.0	314.8	318.6	320.6
72.5°	262.6	258.8	262.6	264.6	268.4
75°	212.4	210.5	212.4	212.4	212.4
77.5°	169.9	164.1	168.0	166.1	164.1
80°	125.5	123.6	121.7	119.7	121.7
82.5°	86.9	85.0	85.0	81.1	81.1
85°	50.2	48.3	48.3	44.4	44.4
87.5°	19.3	19.3	17.4	17.4	17.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)