

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: P296268

Luminaire Tested: **24RLN-LD5-67-RDP-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296268  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36059-R2)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24RLN-LD5-67-RDP-UNV-L93050-W2A1-U-3000K  
Description: RLN LED 2x4 TUNABLE WHITE TROFFER  
WITH RDP LENS  
Light Source: (504) 90 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4320.0 lumens  
Efficiency: N/A  
Efficacy: 86.8 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.38  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

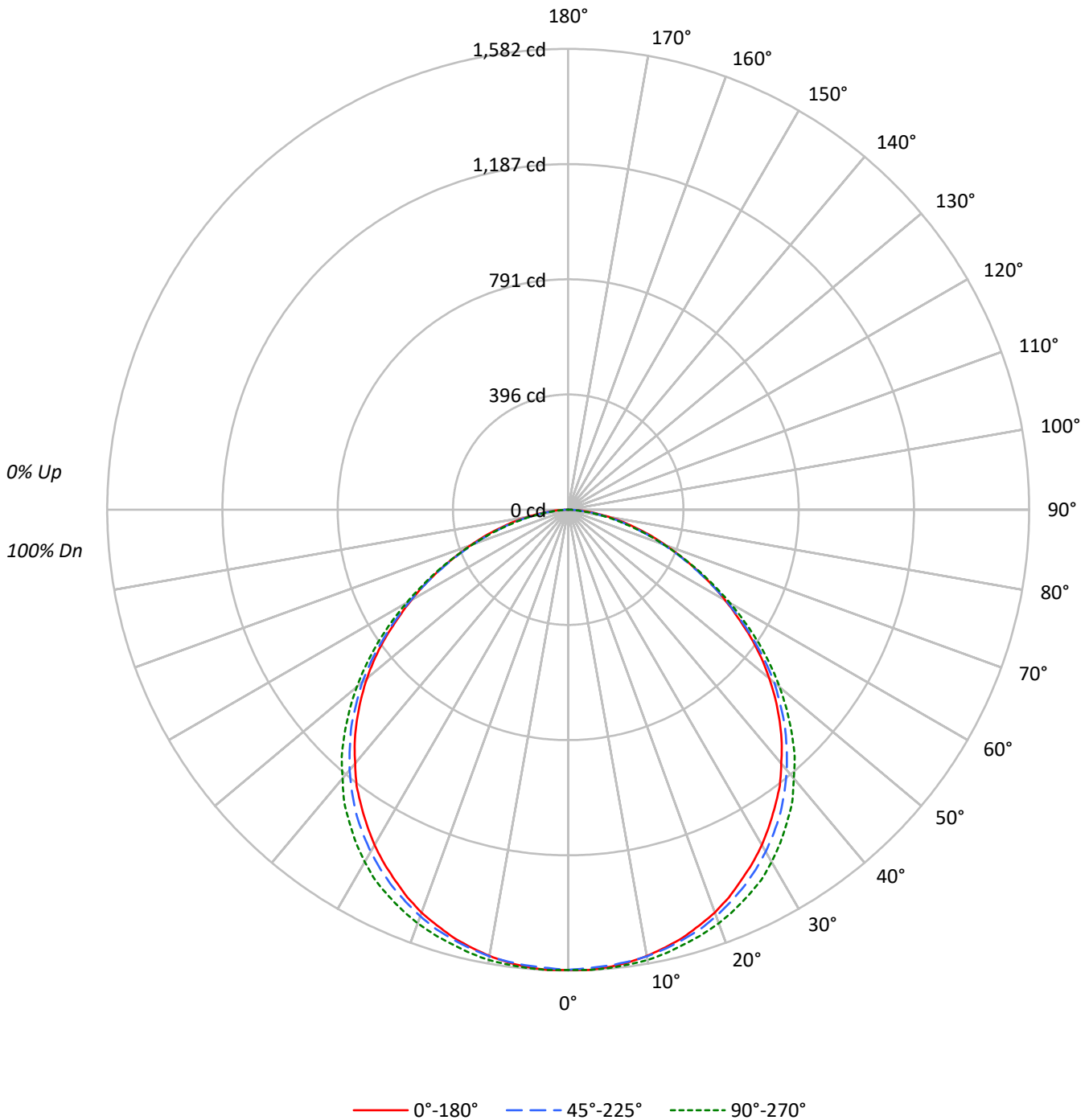
Input Watts (W): 49.755  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P296268

CATALOG NUMBER: 24RLN-LD5-67-RDP-UNV-L93050-W2A1-U-3000K

### Luminous Intensity Polar Plot





TEST NUMBER: P296268

CATALOG NUMBER: 24RLN-LD5-67-RDP-UNV-L93050-W2A1-U-3000K

**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	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	33	27	39	32	27	38	32	27	37	31	27	25

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

	0°	45°	90°
0°	2126	2126	2126
5°	2129	2123	2134
10°	2125	2127	2145
15°	2118	2128	2150
20°	2107	2126	2164
25°	2085	2119	2170
30°	2065	2106	2169
35°	2035	2086	2151
40°	1998	2050	2116
45°	1952	2002	2064
50°	1887	1931	1983
55°	1795	1818	1872
60°	1676	1685	1729
65°	1539	1529	1565
70°	1399	1360	1367
75°	1244	1176	1167
80°	1079	965	940
85°	886	682	531



TEST NUMBER: P296268

CATALOG NUMBER: 24RLN-LD5-67-RDP-UNV-L93050-W2A1-U-3000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	149.8	3.5
10°-20°	431.9	10.0
20°-30°	659.3	15.3
30°-40°	794.9	18.4
40°-50°	810.6	18.8
50°-60°	693.7	16.1
60°-70°	477.8	11.1
70°-80°	245.0	5.7
80°-90°	57.0	1.3
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°	1241.1	28.7
0°-40°	2035.9	47.1
0°-60°	3540.2	81.9
0°-90°	4320.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4320.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1580	1580	1580	1580	1580	
5°	1577	1573	1572	1577	1580	150
15°	1521	1519	1527	1539	1544	429
25°	1404	1409	1427	1452	1462	648
35°	1239	1244	1270	1298	1309	775
45°	1026	1028	1052	1078	1085	790
55°	765	760	775	792	798	683
65°	484	472	480	484	492	480
75°	239	229	226	226	224	258
85°	57	51	44	39	34	67
90°	0	0	0	0	0	



TEST NUMBER: P296268

CATALOG NUMBER: 24RLN-LD5-67-RDP-UNV-L93050-W2A1-U-3000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1579.8	1579.8	1579.8	1579.8	1579.8
2.5°	1581.5	1578.2	1574.9	1578.2	1581.5
5°	1576.6	1573.3	1571.6	1576.6	1579.8
7.5°	1568.4	1565.1	1565.1	1571.6	1574.9
10°	1555.3	1553.6	1556.9	1563.5	1570.0
12.5°	1538.9	1538.9	1543.8	1552.0	1558.5
15°	1520.8	1519.2	1527.4	1538.9	1543.8
17.5°	1496.3	1497.9	1509.4	1522.5	1529.0
20°	1471.7	1473.3	1484.8	1502.8	1511.0
22.5°	1440.5	1443.8	1456.9	1479.9	1488.1
25°	1404.5	1409.4	1427.4	1452.0	1461.8
27.5°	1368.4	1373.3	1393.0	1420.9	1434.0
30°	1329.1	1335.7	1355.3	1384.8	1396.3
32.5°	1284.8	1289.8	1314.3	1343.8	1355.3
35°	1239.0	1243.9	1270.1	1298.0	1309.4
37.5°	1193.1	1193.1	1219.3	1252.1	1263.5
40°	1137.4	1139.0	1166.9	1198.0	1204.5
42.5°	1084.9	1084.9	1109.5	1139.0	1150.5
45°	1025.9	1027.6	1052.1	1078.4	1084.9
47.5°	965.3	965.3	986.6	1011.2	1017.7
50°	901.4	898.1	922.7	942.3	947.2
52.5°	835.8	830.9	850.6	866.9	873.5
55°	765.3	760.4	775.2	791.6	798.1
57.5°	691.6	685.0	701.4	716.2	719.5
60°	622.8	612.9	626.0	634.2	642.4
62.5°	553.9	542.5	552.3	557.2	563.8
65°	483.5	472.0	480.2	483.5	491.7
67.5°	416.3	408.1	409.7	414.6	417.9
70°	355.6	345.8	345.8	345.8	347.4
72.5°	299.9	285.2	283.5	285.2	285.2
75°	239.3	229.4	226.2	226.2	224.5
77.5°	191.7	178.6	177.0	173.7	170.4
80°	139.3	127.8	124.6	122.9	121.3
82.5°	96.7	86.9	83.6	80.3	75.4
85°	57.4	50.8	44.2	39.3	34.4
87.5°	21.3	19.7	16.4	14.7	14.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)