

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: P296273

Luminaire Tested: **24RLN-LD5-74-RDP-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296273  
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-LD5-74-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: 4796.0 lumens  
Efficiency: N/A  
Efficacy: 85.1 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

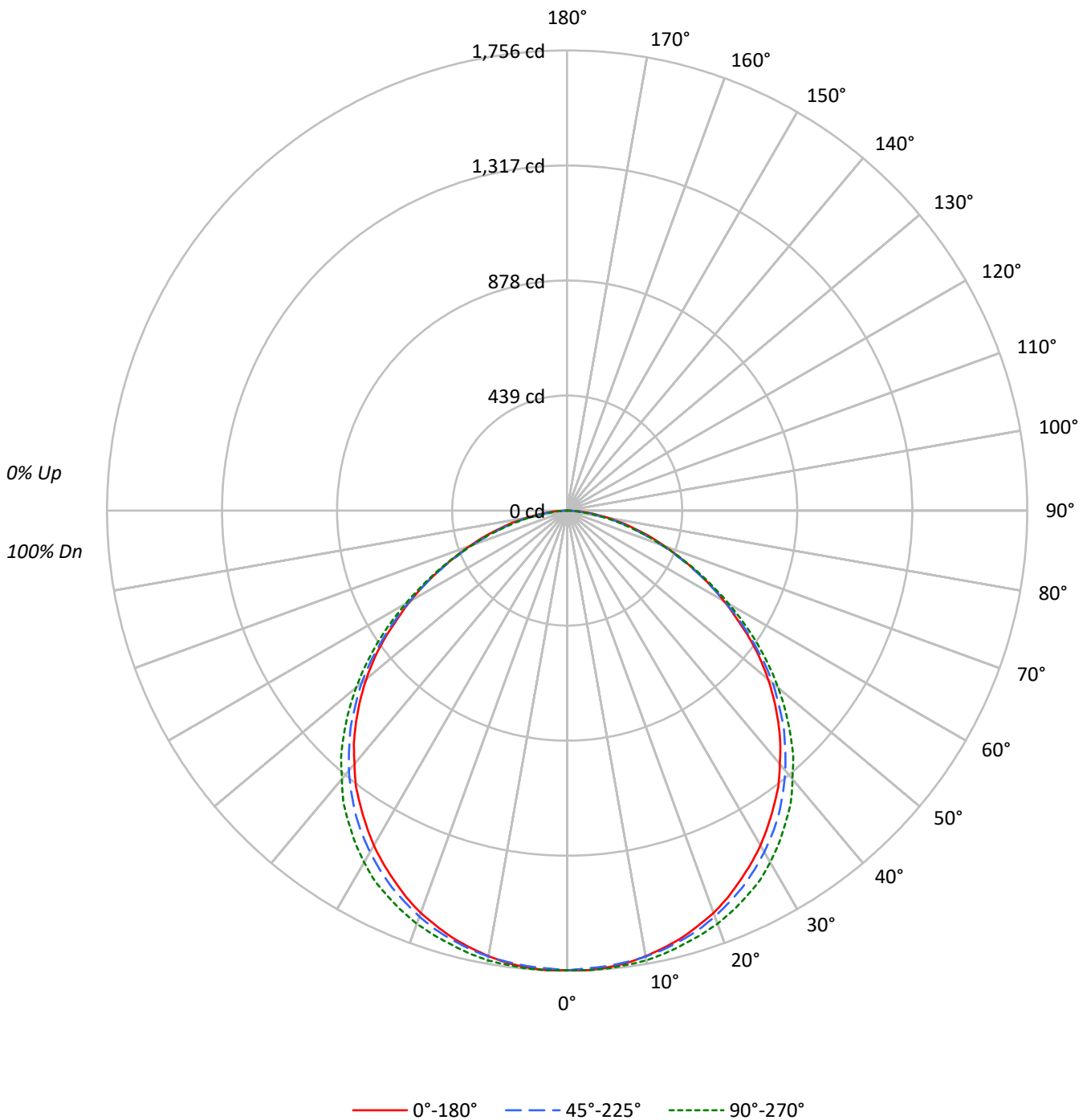
Input Watts (W): 56.358  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	2360	2360	2360
5°	2364	2357	2369
10°	2359	2361	2381
15°	2352	2362	2387
20°	2339	2360	2402
25°	2315	2353	2409
30°	2292	2338	2408
35°	2259	2316	2388
40°	2218	2275	2349
45°	2167	2223	2292
50°	2095	2144	2201
55°	1993	2019	2079
60°	1861	1870	1919
65°	1709	1697	1738
70°	1553	1510	1517
75°	1381	1305	1296
80°	1199	1072	1043
85°	983	758	590



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	166.3	3.5
10°-20°	479.5	10.0
20°-30°	732.0	15.3
30°-40°	882.4	18.4
40°-50°	899.9	18.8
50°-60°	770.1	16.1
60°-70°	530.5	11.1
70°-80°	272.0	5.7
80°-90°	63.3	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°	1377.8	28.7
0°-40°	2260.2	47.1
0°-60°	3930.3	81.9
0°-90°	4796.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4796.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1754	1754	1754	1754	1754	
5°	1750	1747	1745	1750	1754	166
15°	1688	1687	1696	1708	1714	476
25°	1559	1565	1585	1612	1623	719
35°	1376	1381	1410	1441	1454	861
45°	1139	1141	1168	1197	1204	878
55°	850	844	861	879	886	758
65°	537	524	533	537	546	533
75°	266	255	251	251	249	286
85°	64	56	49	44	38	74
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1753.9	1753.9	1753.9	1753.9	1753.9
2.5°	1755.7	1752.1	1748.5	1752.1	1755.7
5°	1750.3	1746.6	1744.8	1750.3	1753.9
7.5°	1741.2	1737.5	1737.5	1744.8	1748.5
10°	1726.6	1724.8	1728.4	1735.7	1743.0
12.5°	1708.4	1708.4	1713.9	1723.0	1730.3
15°	1688.4	1686.6	1695.7	1708.4	1713.9
17.5°	1661.1	1662.9	1675.7	1690.2	1697.5
20°	1633.8	1635.7	1648.4	1668.4	1677.5
22.5°	1599.3	1602.9	1617.5	1642.9	1652.0
25°	1559.2	1564.7	1584.7	1612.0	1622.9
27.5°	1519.2	1524.7	1546.5	1577.4	1592.0
30°	1475.5	1482.8	1504.7	1537.4	1550.1
32.5°	1426.4	1431.9	1459.2	1491.9	1504.7
35°	1375.5	1380.9	1410.0	1441.0	1453.7
37.5°	1324.5	1324.5	1353.6	1390.0	1402.8
40°	1262.7	1264.5	1295.4	1330.0	1337.3
42.5°	1204.5	1204.5	1231.7	1264.5	1277.2
45°	1139.0	1140.8	1168.1	1197.2	1204.5
47.5°	1071.6	1071.6	1095.3	1122.6	1129.9
50°	1000.7	997.0	1024.3	1046.2	1051.6
52.5°	927.9	922.4	944.3	962.5	969.7
55°	849.7	844.2	860.6	878.8	886.1
57.5°	767.8	760.5	778.7	795.1	798.7
60°	691.4	680.5	695.0	704.1	713.2
62.5°	615.0	602.2	613.1	618.6	625.9
65°	536.7	524.0	533.1	536.7	545.8
67.5°	462.1	453.0	454.9	460.3	464.0
70°	394.8	383.9	383.9	383.9	385.7
72.5°	333.0	316.6	314.8	316.6	316.6
75°	265.6	254.7	251.1	251.1	249.3
77.5°	212.9	198.3	196.5	192.9	189.2
80°	154.7	141.9	138.3	136.5	134.6
82.5°	107.3	96.4	92.8	89.2	83.7
85°	63.7	56.4	49.1	43.7	38.2
87.5°	23.7	21.8	18.2	16.4	16.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)