

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: P296356

Luminaire Tested: **24RLN-LD5-74-RDP-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296356  
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-L92765-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: 5023.0 lumens  
Efficiency: N/A  
Efficacy: 92.2 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

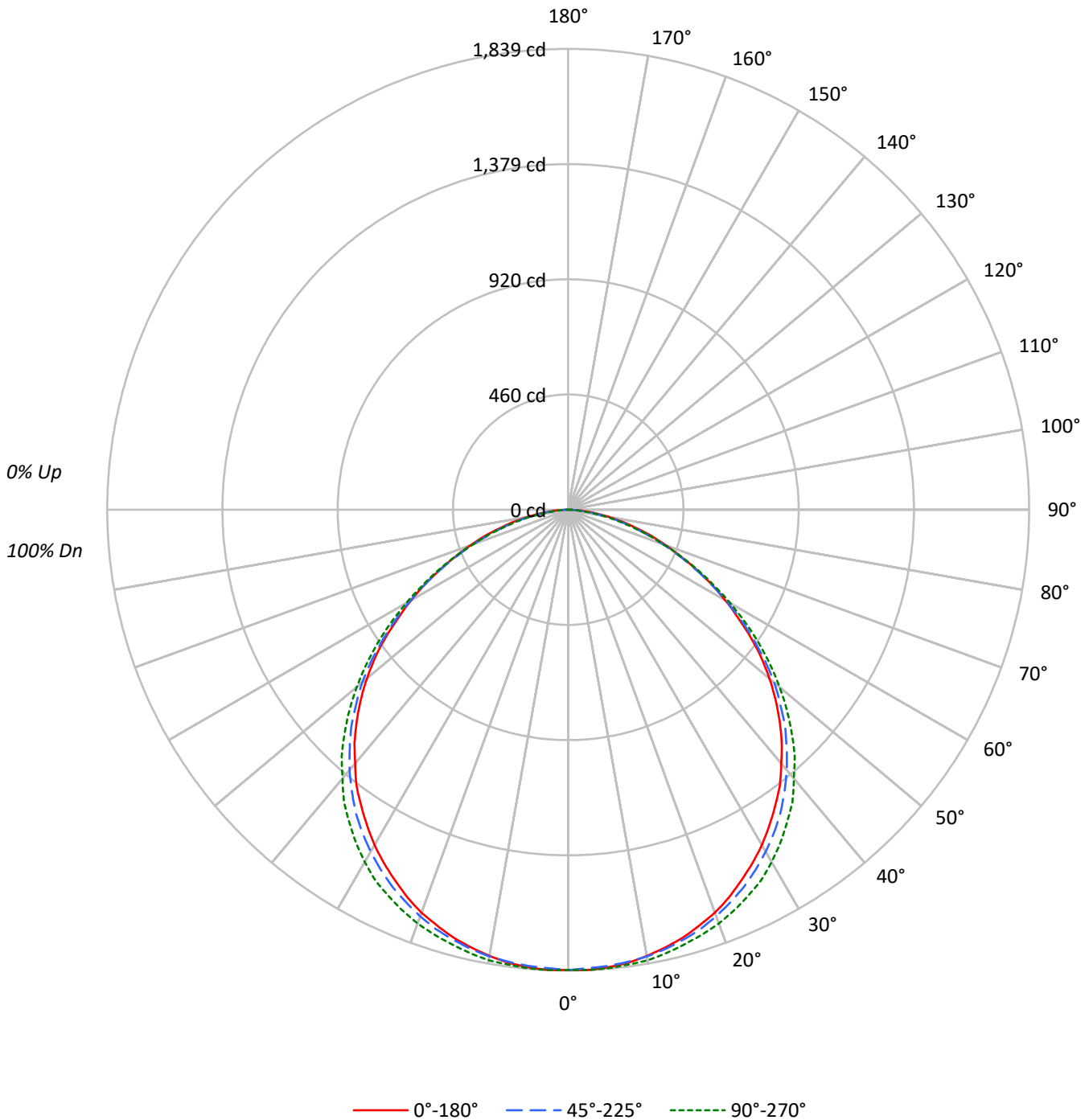
Input Watts (W): 54.498  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2472	2472	2472
5°	2476	2468	2481
10°	2471	2473	2494
15°	2463	2474	2500
20°	2450	2472	2516
25°	2424	2464	2523
30°	2401	2448	2522
35°	2366	2426	2501
40°	2323	2383	2460
45°	2270	2328	2400
50°	2194	2246	2305
55°	2088	2114	2177
60°	1949	1959	2010
65°	1790	1777	1820
70°	1627	1582	1589
75°	1446	1367	1357
80°	1255	1122	1093
85°	1030	794	618



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	174.2	3.5
10°-20°	502.2	10.0
20°-30°	766.6	15.3
30°-40°	924.2	18.4
40°-50°	942.5	18.8
50°-60°	806.6	16.1
60°-70°	555.6	11.1
70°-80°	284.8	5.7
80°-90°	66.3	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°	1443.0	28.7
0°-40°	2367.2	47.1
0°-60°	4116.3	81.9
0°-90°	5023.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5023.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1837	1837	1837	1837	1837	
5°	1833	1829	1827	1833	1837	174
15°	1768	1766	1776	1789	1795	499
25°	1633	1639	1660	1688	1700	753
35°	1441	1446	1477	1509	1522	901
45°	1193	1195	1223	1254	1262	919
55°	890	884	901	920	928	794
65°	562	549	558	562	572	559
75°	278	267	263	263	261	300
85°	67	59	51	46	40	77
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1836.9	1836.9	1836.9	1836.9	1836.9
2.5°	1838.8	1835.0	1831.2	1835.0	1838.8
5°	1833.1	1829.3	1827.4	1833.1	1836.9
7.5°	1823.6	1819.8	1819.8	1827.4	1831.2
10°	1808.3	1806.4	1810.3	1817.9	1825.5
12.5°	1789.3	1789.3	1795.0	1804.5	1812.2
15°	1768.3	1766.4	1776.0	1789.3	1795.0
17.5°	1739.7	1741.7	1755.0	1770.2	1777.9
20°	1711.2	1713.1	1726.4	1747.4	1756.9
22.5°	1675.0	1678.8	1694.0	1720.7	1730.2
25°	1633.0	1638.8	1659.7	1688.3	1699.7
27.5°	1591.1	1596.8	1619.7	1652.1	1667.3
30°	1545.4	1553.0	1575.9	1610.2	1623.5
32.5°	1493.9	1499.7	1528.2	1562.5	1575.9
35°	1440.6	1446.3	1476.8	1509.2	1522.5
37.5°	1387.2	1387.2	1417.7	1455.8	1469.2
40°	1322.4	1324.3	1356.7	1392.9	1400.6
42.5°	1261.5	1261.5	1290.0	1324.3	1337.7
45°	1192.9	1194.8	1223.3	1253.8	1261.5
47.5°	1122.4	1122.4	1147.1	1175.7	1183.3
50°	1048.0	1044.2	1072.8	1095.7	1101.4
52.5°	971.8	966.1	989.0	1008.0	1015.6
55°	889.9	884.2	901.3	920.4	928.0
57.5°	804.1	796.5	815.6	832.7	836.5
60°	724.1	712.7	727.9	737.4	747.0
62.5°	644.1	630.7	642.2	647.9	655.5
65°	562.1	548.8	558.3	562.1	571.7
67.5°	484.0	474.5	476.4	482.1	485.9
70°	413.5	402.1	402.1	402.1	404.0
72.5°	348.7	331.6	329.7	331.6	331.6
75°	278.2	266.8	263.0	263.0	261.1
77.5°	222.9	207.7	205.8	202.0	198.2
80°	162.0	148.6	144.8	142.9	141.0
82.5°	112.4	101.0	97.2	93.4	87.7
85°	66.7	59.1	51.4	45.7	40.0
87.5°	24.8	22.9	19.1	17.1	17.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)