

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: P295871

Luminaire Tested: **24RLN-LD5-31-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295871
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-085-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24RLN-LD5-31-UNV-L82765-W2A1-U-6500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER WITH STANDARD LENS
Light Source: (504) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3240.0 lumens
Efficiency: N/A
Efficacy: 146.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

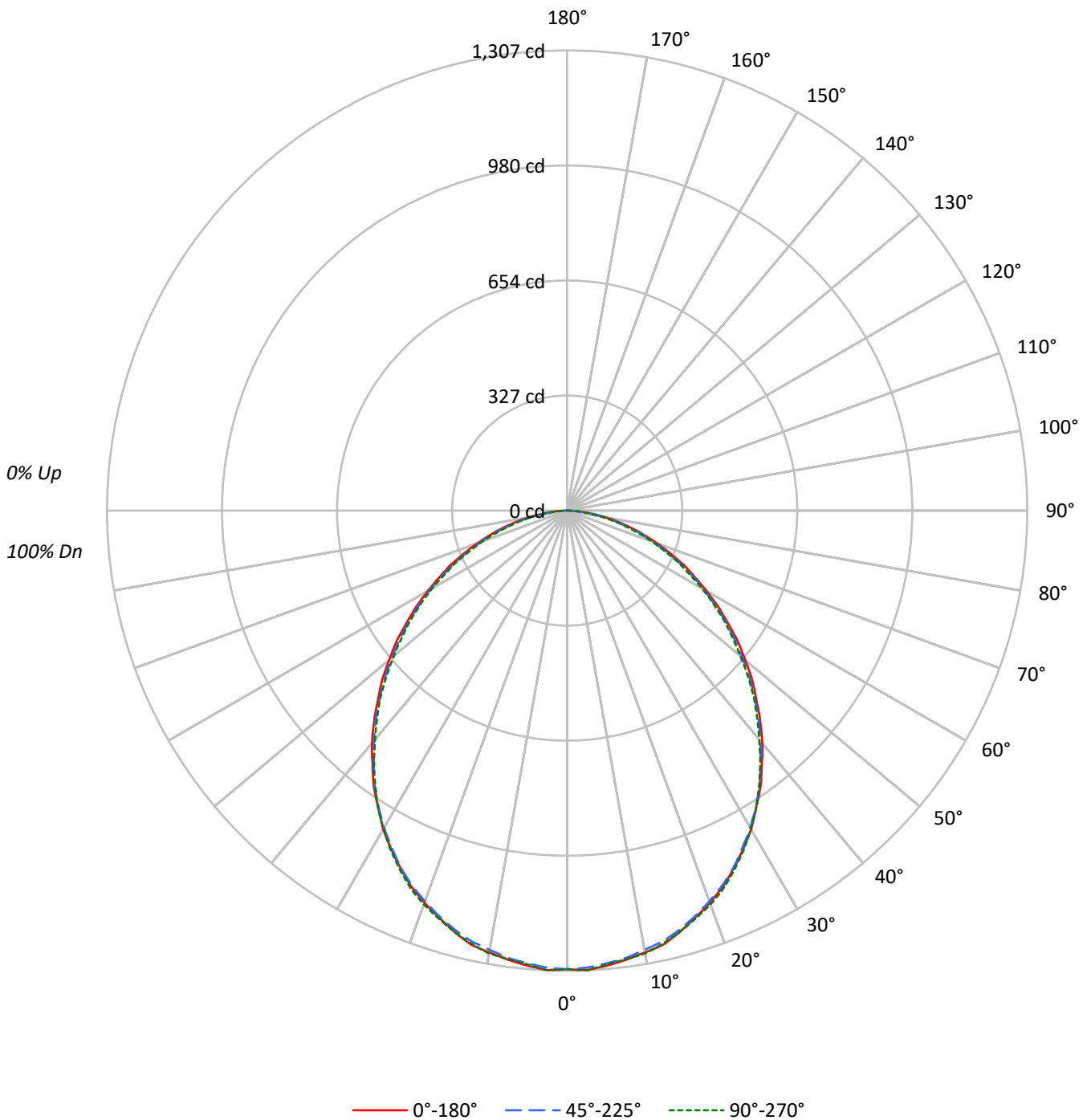
Input Watts (W): 22.134
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P295871

CATALOG NUMBER: 24RLN-LD5-31-UNV-L82765-W2A1-U-6500K

Luminous Intensity Polar Plot





TEST NUMBER: P295871

CATALOG NUMBER: 24RLN-LD5-31-UNV-L82765-W2A1-U-6500K

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	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52
5	77	65	56	50	75	64	55	49	62	54	49	60	53	48	58	52	48	46
6	72	59	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36
8	62	49	40	35	60	48	40	35	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	57	44	36	31	43	36	31	42	36	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1752	1752	1752
5°	1752	1744	1748
10°	1741	1731	1745
15°	1725	1717	1725
20°	1697	1691	1705
25°	1663	1660	1670
30°	1624	1616	1621
35°	1573	1566	1562
40°	1515	1500	1491
45°	1446	1432	1426
50°	1381	1359	1343
55°	1307	1287	1275
60°	1229	1207	1193
65°	1161	1118	1108
70°	1065	1024	1003
75°	978	918	880
80°	859	802	753
85°	693	645	548



TEST NUMBER: P295871

CATALOG NUMBER: 24RLN-LD5-31-UNV-L82765-W2A1-U-6500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.9	3.8
10°-20°	348.4	10.8
20°-30°	515.3	15.9
30°-40°	594.7	18.4
40°-50°	580.9	17.9
50°-60°	490.5	15.1
60°-70°	349.4	10.8
70°-80°	189.2	5.8
80°-90°	48.8	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°	986.6	30.4
0°-40°	1581.3	48.8
0°-60°	2652.6	81.9
0°-90°	3240.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3240.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1302	1302	1302	1302	1302	
5°	1297	1297	1291	1294	1294	123
15°	1239	1233	1232	1238	1239	349
25°	1120	1114	1118	1123	1125	516
35°	958	950	953	950	951	598
45°	760	754	753	749	749	588
55°	557	550	549	544	544	499
65°	365	358	351	347	348	360
75°	188	182	177	172	169	199
85°	45	44	42	37	36	53
90°	0	0	0	0	0	



TEST NUMBER: P295871

CATALOG NUMBER: 24RLN-LD5-31-UNV-L82765-W2A1-U-6500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1302.4	1302.4	1302.4	1302.4	1302.4
2.5°	1306.6	1301.3	1299.3	1300.3	1306.6
5°	1297.2	1297.2	1290.9	1294.0	1294.0
7.5°	1286.7	1287.8	1281.5	1286.7	1284.6
10°	1274.2	1271.0	1266.8	1275.2	1277.3
12.5°	1262.7	1255.4	1253.3	1258.5	1259.5
15°	1238.6	1233.4	1232.4	1237.6	1238.6
17.5°	1211.5	1212.5	1208.3	1215.6	1214.6
20°	1185.3	1183.2	1181.1	1189.5	1190.5
22.5°	1156.1	1149.8	1151.9	1159.2	1161.3
25°	1120.5	1114.2	1118.4	1122.6	1124.7
27.5°	1082.9	1079.7	1078.7	1083.9	1086.0
30°	1045.3	1040.0	1040.0	1046.3	1043.2
32.5°	999.3	995.1	997.2	999.3	1000.3
35°	957.5	950.1	953.3	950.1	951.2
37.5°	908.3	903.1	902.1	901.0	901.0
40°	862.3	858.2	854.0	854.0	848.7
42.5°	812.2	806.9	804.8	801.7	798.6
45°	759.9	753.6	752.6	749.4	749.4
47.5°	712.9	703.5	702.4	696.1	696.1
50°	659.6	653.3	649.1	644.9	641.8
52.5°	611.5	605.2	598.9	594.8	591.6
55°	557.1	549.8	548.8	543.5	543.5
57.5°	508.0	501.7	497.5	491.3	492.3
60°	456.8	450.5	448.4	443.2	443.2
62.5°	408.7	403.5	400.3	395.1	390.9
65°	364.8	357.5	351.2	347.0	348.1
67.5°	316.7	308.4	305.2	301.0	297.9
70°	270.7	265.5	260.3	255.0	255.0
72.5°	227.9	222.6	219.5	213.2	211.1
75°	188.1	181.9	176.6	172.5	169.3
77.5°	148.4	142.2	139.0	133.8	133.8
80°	110.8	106.6	103.5	101.4	97.2
82.5°	76.3	74.2	71.1	67.9	64.8
85°	44.9	43.9	41.8	36.6	35.5
87.5°	17.8	17.8	15.7	14.6	13.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)