

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: P296300

Luminaire Tested: **24RLN-LD5-36-RDP-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296300  
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-LD5-36-RDP-UNV-L92765-W2A1-U-6500K  
Description: RLN LED 2x4 TUNABLE WHITE TROFFER  
WITH RDP LENS  
Light Source: (504) 90 CRI LEDS TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2891.0 lumens  
Efficiency: N/A  
Efficacy: 109.5 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

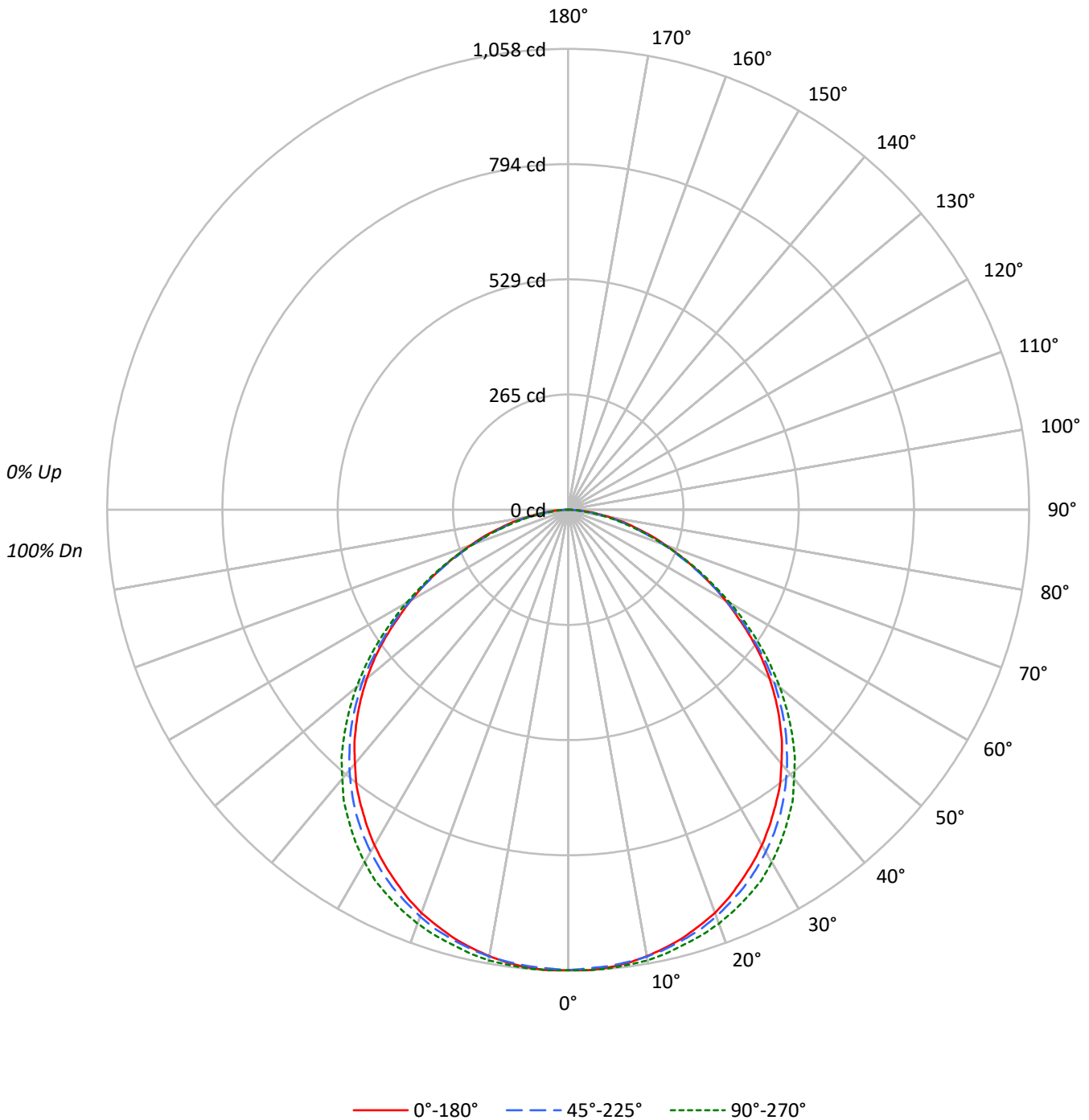
Input Watts (W): 26.412  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P296300

CATALOG NUMBER: 24RLN-LD5-36-RDP-UNV-L92765-W2A1-U-6500K

### Luminous Intensity Polar Plot





TEST NUMBER: P296300

CATALOG NUMBER: 24RLN-LD5-36-RDP-UNV-L92765-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	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°	1422	1422	1422
5°	1425	1421	1428
10°	1422	1423	1436
15°	1418	1424	1439
20°	1410	1423	1448
25°	1395	1418	1452
30°	1382	1409	1452
35°	1362	1396	1439
40°	1337	1372	1416
45°	1306	1340	1381
50°	1263	1293	1327
55°	1202	1217	1253
60°	1122	1128	1157
65°	1030	1023	1047
70°	936	910	915
75°	832	787	781
80°	722	646	629
85°	593	457	355



TEST NUMBER: P296300

CATALOG NUMBER: 24RLN-LD5-36-RDP-UNV-L92765-W2A1-U-6500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.3	3.5
10°-20°	289.1	10.0
20°-30°	441.2	15.3
30°-40°	531.9	18.4
40°-50°	542.4	18.8
50°-60°	464.2	16.1
60°-70°	319.8	11.1
70°-80°	163.9	5.7
80°-90°	38.2	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°	830.5	28.7
0°-40°	1362.5	47.1
0°-60°	2369.1	81.9
0°-90°	2891.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2891.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1057	1057	1057	1057	1057	
5°	1055	1053	1052	1055	1057	100
15°	1018	1017	1022	1030	1033	287
25°	940	943	955	972	978	433
35°	829	832	850	869	876	519
45°	687	688	704	722	726	529
55°	512	509	519	530	534	457
65°	324	316	321	324	329	322
75°	160	154	151	151	150	173
85°	38	34	30	26	23	45
90°	0	0	0	0	0	



TEST NUMBER: P296300

CATALOG NUMBER: 24RLN-LD5-36-RDP-UNV-L92765-W2A1-U-6500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1057.2	1057.2	1057.2	1057.2	1057.2
2.5°	1058.3	1056.2	1054.0	1056.2	1058.3
5°	1055.1	1052.9	1051.8	1055.1	1057.2
7.5°	1049.6	1047.4	1047.4	1051.8	1054.0
10°	1040.8	1039.7	1041.9	1046.3	1050.7
12.5°	1029.8	1029.8	1033.1	1038.6	1043.0
15°	1017.8	1016.7	1022.2	1029.8	1033.1
17.5°	1001.3	1002.4	1010.1	1018.9	1023.3
20°	984.9	986.0	993.6	1005.7	1011.2
22.5°	964.0	966.2	975.0	990.3	995.8
25°	939.9	943.2	955.3	971.7	978.3
27.5°	915.8	919.1	932.2	950.9	959.6
30°	889.4	893.8	907.0	926.7	934.4
32.5°	859.8	863.1	879.6	899.3	907.0
35°	829.1	832.4	850.0	868.6	876.3
37.5°	798.4	798.4	816.0	837.9	845.6
40°	761.1	762.2	780.9	801.7	806.1
42.5°	726.0	726.0	742.5	762.2	769.9
45°	686.6	687.7	704.1	721.6	726.0
47.5°	646.0	646.0	660.2	676.7	681.1
50°	603.2	601.0	617.5	630.6	633.9
52.5°	559.3	556.0	569.2	580.2	584.6
55°	512.2	508.9	518.8	529.7	534.1
57.5°	462.8	458.4	469.4	479.3	481.5
60°	416.8	410.2	419.0	424.4	429.9
62.5°	370.7	363.0	369.6	372.9	377.3
65°	323.5	315.9	321.3	323.5	329.0
67.5°	278.6	273.1	274.2	277.5	279.7
70°	238.0	231.4	231.4	231.4	232.5
72.5°	200.7	190.8	189.7	190.8	190.8
75°	160.1	153.5	151.3	151.3	150.3
77.5°	128.3	119.5	118.4	116.3	114.1
80°	93.2	85.5	83.4	82.3	81.2
82.5°	64.7	58.1	55.9	53.7	50.4
85°	38.4	34.0	29.6	26.3	23.0
87.5°	14.3	13.2	11.0	9.9	9.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)