

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: P296158

Luminaire Tested: **24RLN-LD5-36-RDP-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296158  
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-L82765-W2A1-U-5500K  
Description: RLN LED 2x4 TUNABLE WHITE TROFFER  
WITH RDP LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3167.0 lumens  
Efficiency: N/A  
Efficacy: 122.1 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

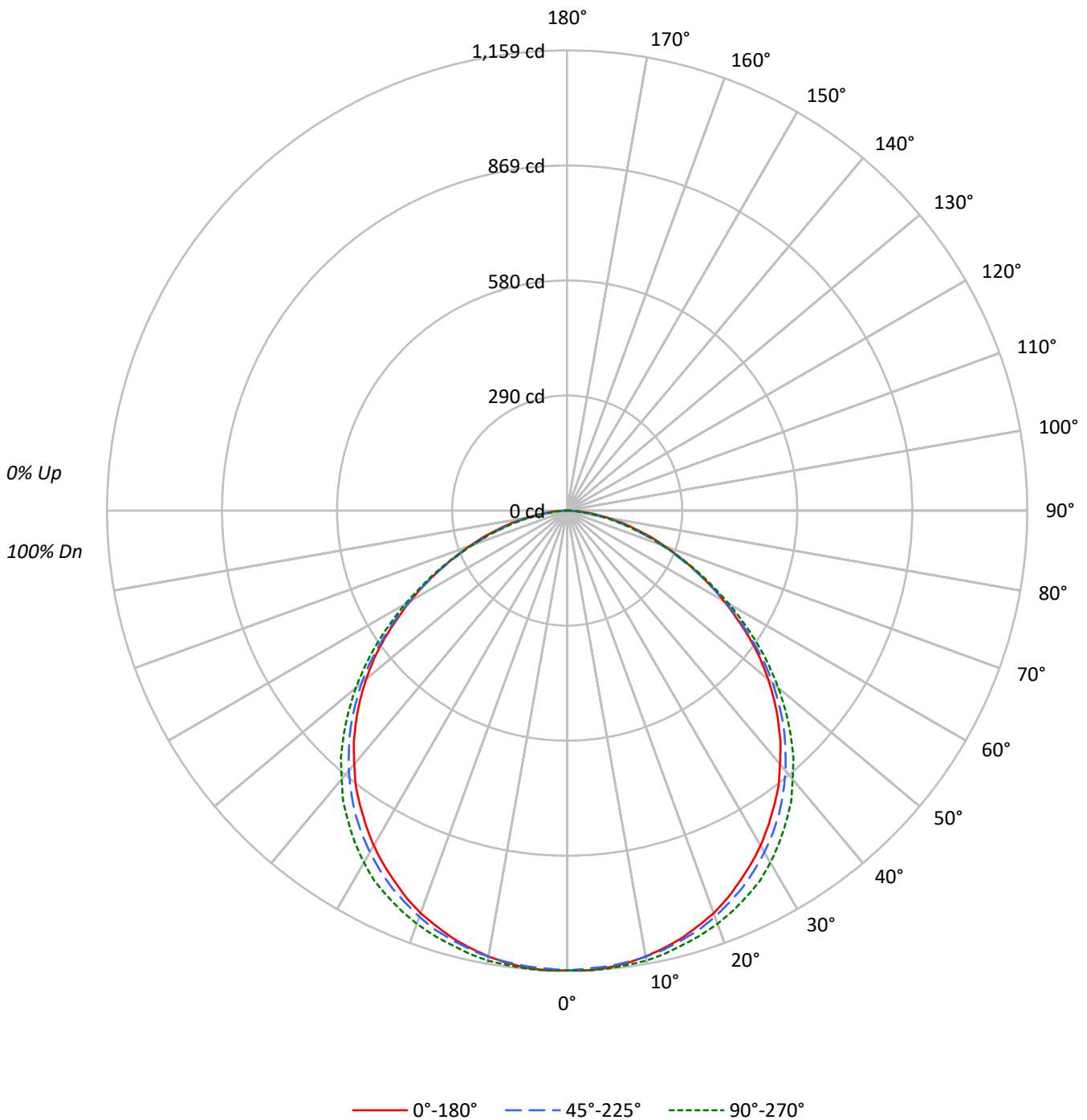
Input Watts (W): 25.947  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1558	1558	1558
5°	1561	1556	1564
10°	1558	1559	1573
15°	1553	1560	1577
20°	1545	1559	1586
25°	1529	1554	1591
30°	1514	1544	1590
35°	1492	1529	1577
40°	1464	1502	1551
45°	1431	1468	1513
50°	1383	1416	1454
55°	1316	1333	1373
60°	1228	1235	1267
65°	1128	1121	1147
70°	1026	997	1002
75°	912	862	856
80°	791	707	689
85°	650	500	389



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.8	3.5
10°-20°	316.7	10.0
20°-30°	483.3	15.3
30°-40°	582.7	18.4
40°-50°	594.2	18.8
50°-60°	508.5	16.1
60°-70°	350.3	11.1
70°-80°	179.6	5.7
80°-90°	41.8	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°	909.8	28.7
0°-40°	1492.5	47.1
0°-60°	2595.3	81.9
0°-90°	3167.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3167.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1158	1158	1158	1158	1158	
5°	1156	1153	1152	1156	1158	110
15°	1115	1114	1120	1128	1132	314
25°	1030	1033	1046	1064	1072	475
35°	908	912	931	952	960	568
45°	752	753	771	790	795	579
55°	561	558	568	580	585	501
65°	354	346	352	354	360	352
75°	175	168	166	166	165	189
85°	42	37	32	29	25	49
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1158.2	1158.2	1158.2	1158.2	1158.2
2.5°	1159.4	1157.0	1154.6	1157.0	1159.4
5°	1155.8	1153.4	1152.2	1155.8	1158.2
7.5°	1149.8	1147.4	1147.4	1152.2	1154.6
10°	1140.2	1139.0	1141.4	1146.2	1151.0
12.5°	1128.1	1128.1	1131.8	1137.8	1142.6
15°	1114.9	1113.7	1119.7	1128.1	1131.8
17.5°	1096.9	1098.1	1106.5	1116.1	1120.9
20°	1078.9	1080.1	1088.5	1101.7	1107.7
22.5°	1056.1	1058.5	1068.1	1084.9	1090.9
25°	1029.6	1033.2	1046.5	1064.5	1071.7
27.5°	1003.2	1006.8	1021.2	1041.6	1051.3
30°	974.4	979.2	993.6	1015.2	1023.6
32.5°	941.9	945.5	963.6	985.2	993.6
35°	908.3	911.9	931.1	951.5	959.9
37.5°	874.6	874.6	893.9	917.9	926.3
40°	833.8	835.0	855.4	878.2	883.1
42.5°	795.4	795.4	813.4	835.0	843.4
45°	752.1	753.3	771.3	790.5	795.4
47.5°	707.6	707.6	723.3	741.3	746.1
50°	660.8	658.4	676.4	690.8	694.4
52.5°	612.7	609.1	623.5	635.6	640.4
55°	561.1	557.5	568.3	580.3	585.1
57.5°	507.0	502.2	514.2	525.0	527.4
60°	456.5	449.3	458.9	465.0	471.0
62.5°	406.1	397.7	404.9	408.5	413.3
65°	354.4	346.0	352.0	354.4	360.4
67.5°	305.2	299.2	300.4	304.0	306.4
70°	260.7	253.5	253.5	253.5	254.7
72.5°	219.9	209.0	207.8	209.0	209.0
75°	175.4	168.2	165.8	165.8	164.6
77.5°	140.6	131.0	129.8	127.4	124.9
80°	102.1	93.7	91.3	90.1	88.9
82.5°	70.9	63.7	61.3	58.9	55.3
85°	42.1	37.2	32.4	28.8	25.2
87.5°	15.6	14.4	12.0	10.8	10.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)