

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: P295879

Luminaire Tested: **24RLN-LD5-36-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P295879  
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-LD5-36-UNV-L82765-W2A1-U-5700K  
Description: RLN LED 2x4 TUNABLE WHITE TROFFER  
WITH STANDARD LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3829.0 lumens  
Efficiency: N/A  
Efficacy: 147.6 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

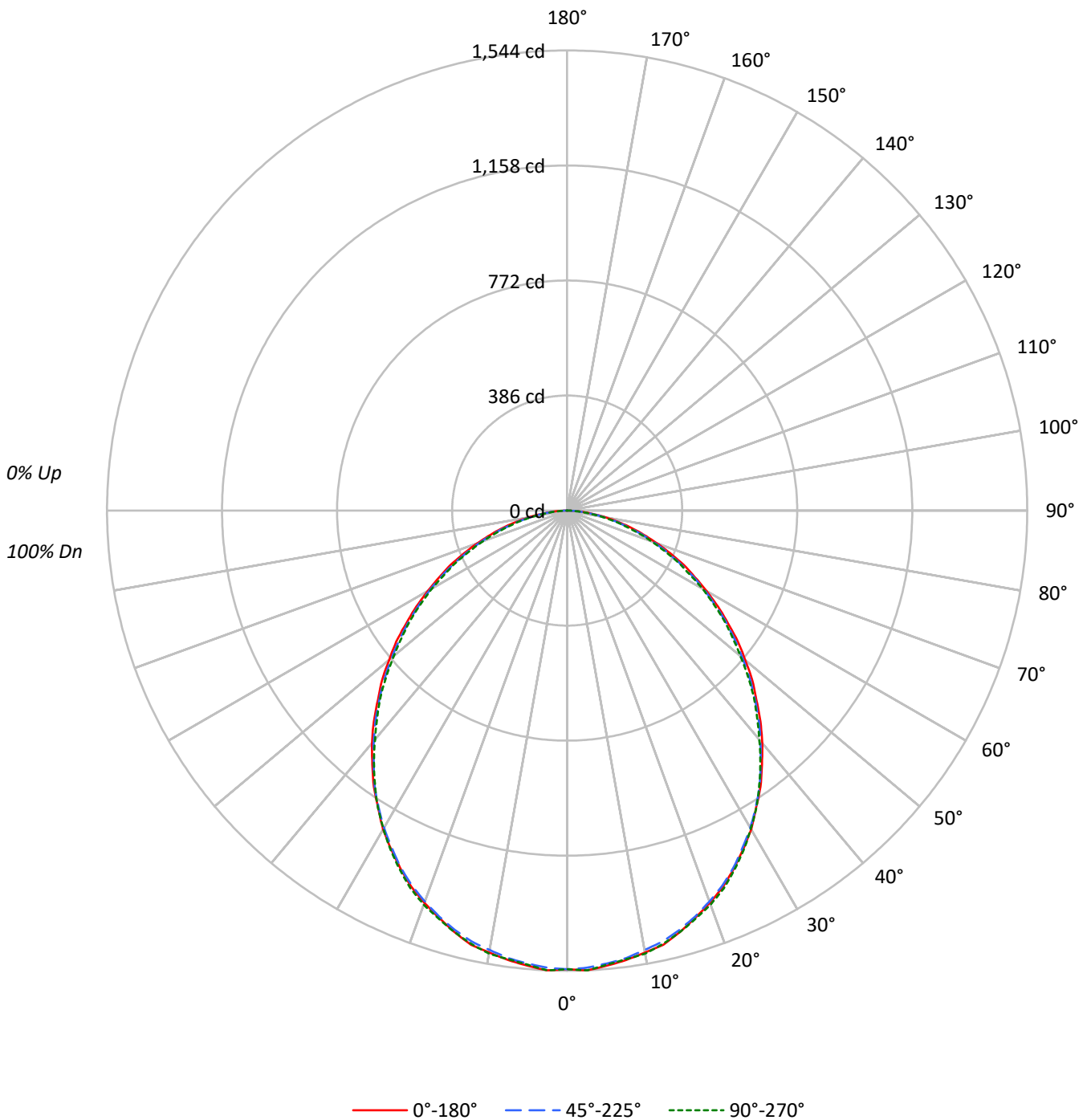
Input Watts (W): 25.947  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	2071	2071	2071
5°	2071	2061	2066
10°	2057	2045	2062
15°	2039	2029	2039
20°	2006	1999	2015
25°	1966	1962	1973
30°	1919	1910	1915
35°	1859	1850	1846
40°	1790	1773	1762
45°	1709	1692	1685
50°	1632	1606	1588
55°	1544	1521	1507
60°	1453	1426	1410
65°	1372	1322	1309
70°	1258	1210	1186
75°	1156	1085	1040
80°	1014	948	890
85°	820	763	648



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	145.2	3.8
10°-20°	411.7	10.8
20°-30°	609.0	15.9
30°-40°	702.8	18.4
40°-50°	686.5	17.9
50°-60°	579.7	15.1
60°-70°	412.9	10.8
70°-80°	223.6	5.8
80°-90°	57.7	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°	1165.9	30.4
0°-40°	1868.8	48.8
0°-60°	3134.9	81.9
0°-90°	3829.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3829.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1539	1539	1539	1539	1539	
5°	1533	1533	1526	1529	1529	145
15°	1464	1458	1456	1463	1464	412
25°	1324	1317	1322	1327	1329	610
35°	1132	1123	1127	1123	1124	706
45°	898	891	889	886	886	694
55°	658	650	648	642	642	590
65°	431	422	415	410	411	425
75°	222	215	209	204	200	235
85°	53	52	49	43	42	62
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1539.1	1539.1	1539.1	1539.1	1539.1
2.5°	1544.1	1537.9	1535.4	1536.7	1544.1
5°	1533.0	1533.0	1525.6	1529.3	1529.3
7.5°	1520.6	1521.9	1514.4	1520.6	1518.1
10°	1505.8	1502.1	1497.1	1507.0	1509.5
12.5°	1492.2	1483.6	1481.1	1487.3	1488.5
15°	1463.8	1457.6	1456.4	1462.6	1463.8
17.5°	1431.7	1432.9	1428.0	1436.6	1435.4
20°	1400.8	1398.3	1395.9	1405.7	1407.0
22.5°	1366.2	1358.8	1361.3	1369.9	1372.4
25°	1324.2	1316.8	1321.7	1326.7	1329.2
27.5°	1279.7	1276.0	1274.8	1281.0	1283.4
30°	1235.3	1229.1	1229.1	1236.5	1232.8
32.5°	1180.9	1176.0	1178.4	1180.9	1182.2
35°	1131.5	1122.9	1126.6	1122.9	1124.1
37.5°	1073.5	1067.3	1066.0	1064.8	1064.8
40°	1019.1	1014.2	1009.2	1009.2	1003.0
42.5°	959.8	953.6	951.2	947.5	943.7
45°	898.0	890.6	889.4	885.7	885.7
47.5°	842.5	831.3	830.1	822.7	822.7
50°	779.5	772.0	767.1	762.2	758.5
52.5°	722.6	715.2	707.8	702.9	699.2
55°	658.4	649.8	648.5	642.3	642.3
57.5°	600.3	592.9	588.0	580.6	581.8
60°	539.8	532.4	529.9	523.8	523.8
62.5°	483.0	476.8	473.1	466.9	462.0
65°	431.1	422.5	415.1	410.1	411.3
67.5°	374.3	364.4	360.7	355.8	352.1
70°	319.9	313.8	307.6	301.4	301.4
72.5°	269.3	263.1	259.4	252.0	249.5
75°	222.3	214.9	208.8	203.8	200.1
77.5°	175.4	168.0	164.3	158.1	158.1
80°	130.9	126.0	122.3	119.8	114.9
82.5°	90.2	87.7	84.0	80.3	76.6
85°	53.1	51.9	49.4	43.2	42.0
87.5°	21.0	21.0	18.5	17.3	16.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)