

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: P296013

Luminaire Tested: **24RLN-LD5-36-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296013  
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-L92765-W2A1-U-3000K  
Description: RLN LED 2x4 TUNABLE WHITE TROFFER  
WITH STANDARD LENS  
Light Source: (504) 90 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2993.0 lumens  
Efficiency: N/A  
Efficacy: 120.1 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

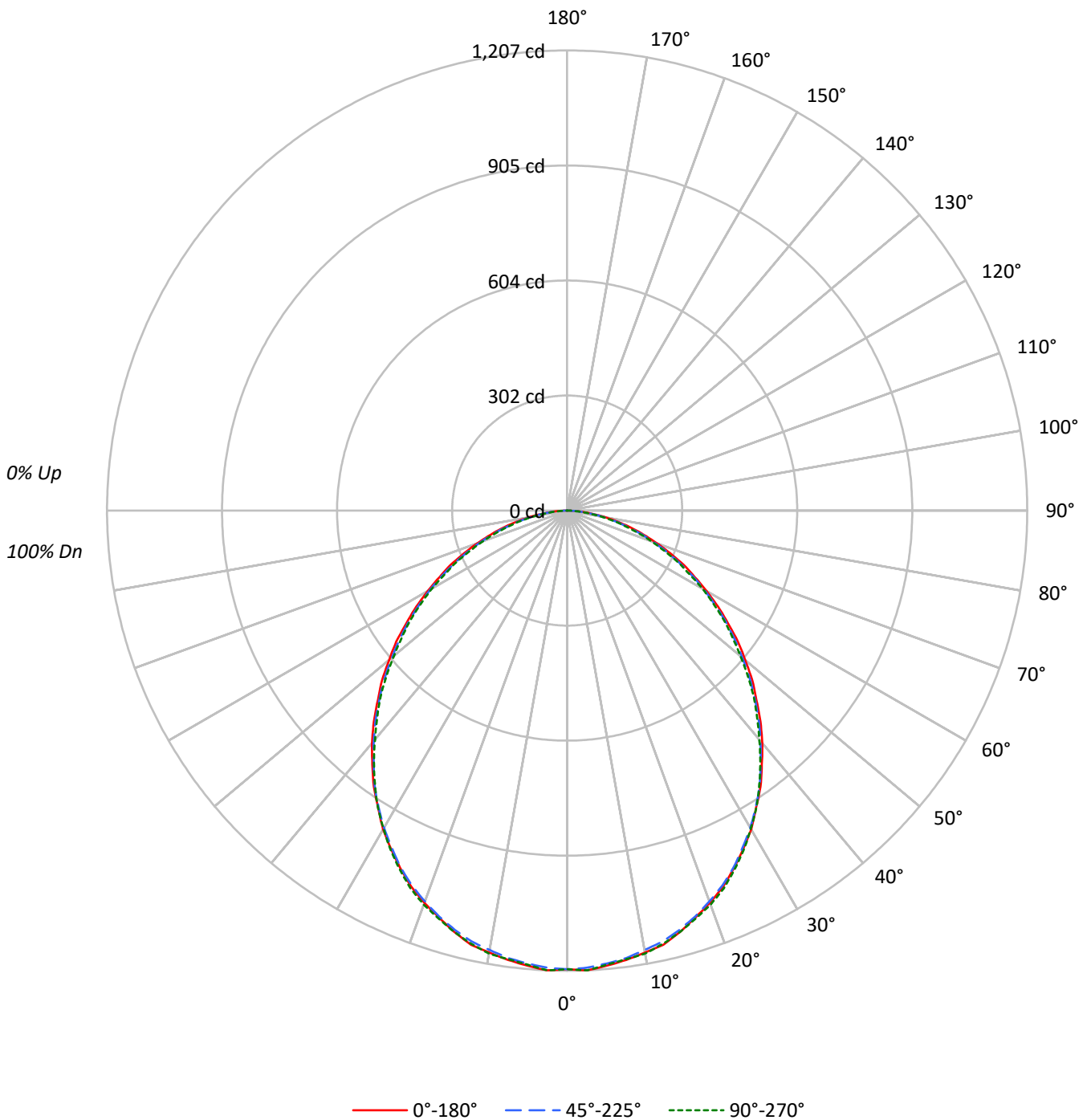
Input Watts (W): 24.924  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1619	1619	1619
5°	1618	1611	1615
10°	1608	1599	1612
15°	1594	1586	1594
20°	1568	1562	1575
25°	1537	1534	1542
30°	1500	1493	1497
35°	1453	1446	1443
40°	1399	1386	1377
45°	1336	1323	1317
50°	1275	1255	1241
55°	1207	1189	1178
60°	1136	1115	1102
65°	1073	1033	1024
70°	984	946	927
75°	904	848	813
80°	793	741	696
85°	641	596	506



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	113.5	3.8
10°-20°	321.8	10.8
20°-30°	476.0	15.9
30°-40°	549.4	18.4
40°-50°	536.6	17.9
50°-60°	453.1	15.1
60°-70°	322.7	10.8
70°-80°	174.8	5.8
80°-90°	45.1	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°	911.4	30.4
0°-40°	1460.7	48.8
0°-60°	2450.4	81.9
0°-90°	2993.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2993.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1203	1203	1203	1203	1203	
5°	1198	1198	1192	1195	1195	114
15°	1144	1139	1138	1143	1144	322
25°	1035	1029	1033	1037	1039	477
35°	884	878	881	878	879	552
45°	702	696	695	692	692	543
55°	515	508	507	502	502	461
65°	337	330	324	321	322	332
75°	174	168	163	159	156	184
85°	42	41	39	34	33	49
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1203.1	1203.1	1203.1	1203.1	1203.1
2.5°	1207.0	1202.1	1200.2	1201.2	1207.0
5°	1198.3	1198.3	1192.5	1195.4	1195.4
7.5°	1188.6	1189.6	1183.8	1188.6	1186.7
10°	1177.0	1174.1	1170.3	1178.0	1179.9
12.5°	1166.4	1159.7	1157.7	1162.5	1163.5
15°	1144.2	1139.4	1138.4	1143.2	1144.2
17.5°	1119.1	1120.1	1116.2	1123.0	1122.0
20°	1095.0	1093.0	1091.1	1098.8	1099.8
22.5°	1067.9	1062.1	1064.1	1070.8	1072.7
25°	1035.1	1029.3	1033.2	1037.0	1039.0
27.5°	1000.3	997.4	996.5	1001.3	1003.2
30°	965.6	960.7	960.7	966.5	963.6
32.5°	923.1	919.2	921.2	923.1	924.1
35°	884.5	877.7	880.6	877.7	878.7
37.5°	839.1	834.3	833.3	832.3	832.3
40°	796.6	792.7	788.9	788.9	784.0
42.5°	750.2	745.4	743.5	740.6	737.7
45°	702.0	696.2	695.2	692.3	692.3
47.5°	658.5	649.8	648.9	643.1	643.1
50°	609.3	603.5	599.6	595.8	592.9
52.5°	564.9	559.1	553.3	549.4	546.5
55°	514.6	507.9	506.9	502.1	502.1
57.5°	469.3	463.5	459.6	453.8	454.8
60°	422.0	416.2	414.2	409.4	409.4
62.5°	377.5	372.7	369.8	365.0	361.1
65°	337.0	330.2	324.4	320.6	321.5
67.5°	292.6	284.8	281.9	278.1	275.2
70°	250.1	245.3	240.4	235.6	235.6
72.5°	210.5	205.7	202.8	197.0	195.0
75°	173.8	168.0	163.2	159.3	156.4
77.5°	137.1	131.3	128.4	123.6	123.6
80°	102.4	98.5	95.6	93.7	89.8
82.5°	70.5	68.6	65.7	62.8	59.9
85°	41.5	40.6	38.6	33.8	32.8
87.5°	16.4	16.4	14.5	13.5	12.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)