

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: P296012

Luminaire Tested: **24RLN-LD5-36-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296012
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-2700K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER WITH STANDARD LENS
Light Source: (504) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2878.0 lumens
Efficiency: N/A
Efficacy: 114.6 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

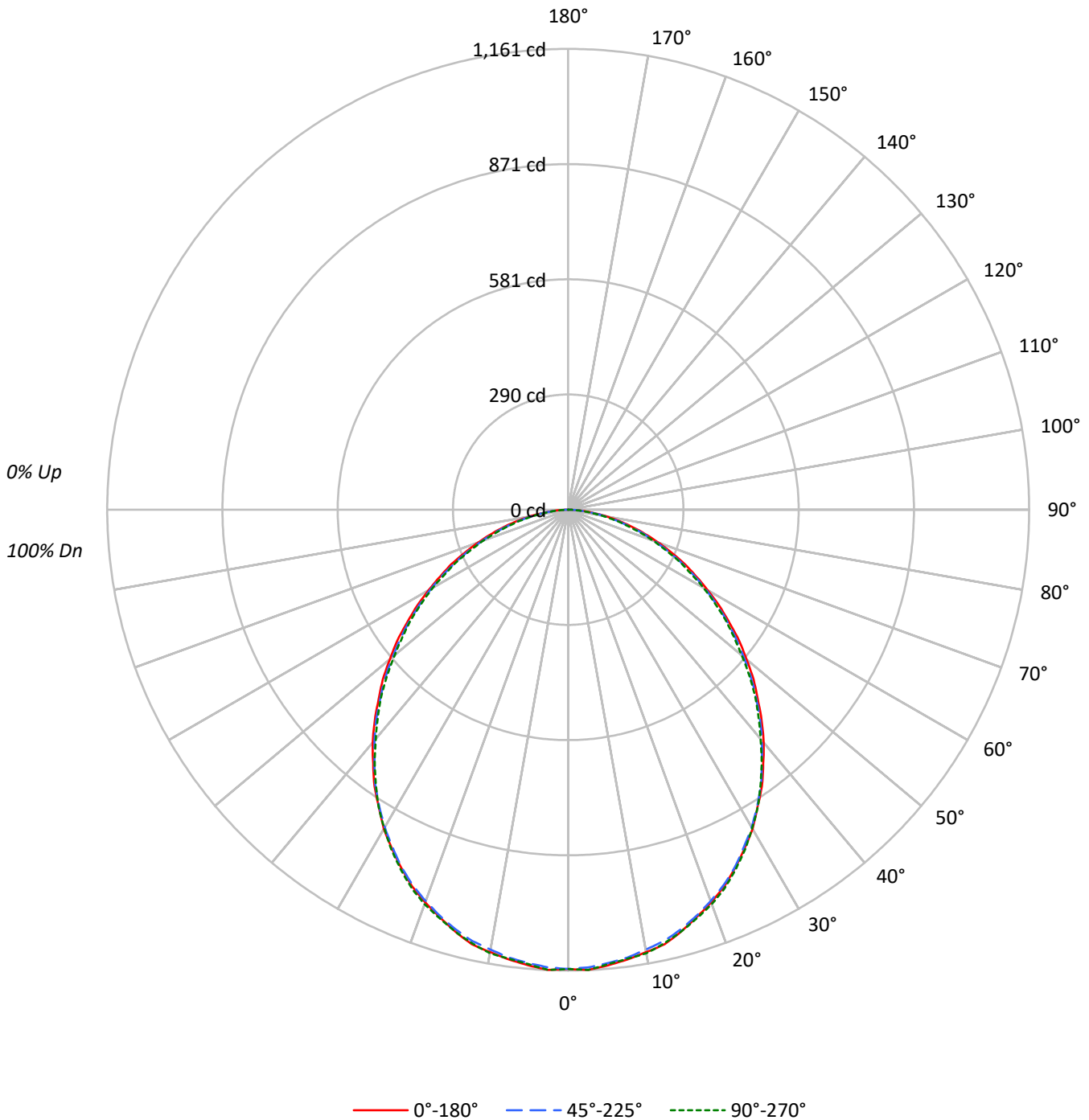
Input Watts (W): 25.11
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1557	1557	1557
5°	1556	1549	1552
10°	1546	1537	1550
15°	1533	1525	1533
20°	1508	1502	1514
25°	1478	1475	1483
30°	1443	1435	1440
35°	1397	1391	1388
40°	1345	1332	1324
45°	1284	1272	1267
50°	1226	1207	1193
55°	1161	1143	1133
60°	1092	1072	1059
65°	1032	993	984
70°	946	910	891
75°	869	816	782
80°	762	712	669
85°	616	573	488



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.2	3.8
10°-20°	309.4	10.8
20°-30°	457.7	15.9
30°-40°	528.3	18.4
40°-50°	516.0	17.9
50°-60°	435.7	15.1
60°-70°	310.3	10.8
70°-80°	168.0	5.8
80°-90°	43.4	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°	876.3	30.4
0°-40°	1404.6	48.8
0°-60°	2356.3	81.9
0°-90°	2878.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2878.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1157	1157	1157	1157	1157	
5°	1152	1152	1147	1149	1149	109
15°	1100	1096	1095	1099	1100	310
25°	995	990	994	997	999	458
35°	850	844	847	844	845	531
45°	675	669	668	666	666	522
55°	495	488	487	483	483	444
65°	324	318	312	308	309	319
75°	167	162	157	153	150	177
85°	40	39	37	32	32	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1156.9	1156.9	1156.9	1156.9	1156.9
2.5°	1160.6	1155.9	1154.1	1155.0	1160.6
5°	1152.2	1152.2	1146.7	1149.4	1149.4
7.5°	1142.9	1143.9	1138.3	1142.9	1141.1
10°	1131.8	1129.0	1125.3	1132.7	1134.6
12.5°	1121.6	1115.1	1113.2	1117.9	1118.8
15°	1100.2	1095.6	1094.7	1099.3	1100.2
17.5°	1076.1	1077.0	1073.3	1079.8	1078.9
20°	1052.9	1051.0	1049.2	1056.6	1057.5
22.5°	1026.9	1021.3	1023.2	1029.7	1031.5
25°	995.3	989.7	993.5	997.2	999.0
27.5°	961.9	959.1	958.2	962.8	964.7
30°	928.5	923.8	923.8	929.4	926.6
32.5°	887.6	883.9	885.8	887.6	888.5
35°	850.5	844.0	846.8	844.0	844.9
37.5°	806.8	802.2	801.3	800.3	800.3
40°	766.0	762.3	758.6	758.6	753.9
42.5°	721.4	716.8	714.9	712.1	709.4
45°	675.0	669.4	668.5	665.7	665.7
47.5°	633.2	624.9	623.9	618.4	618.4
50°	585.9	580.3	576.6	572.9	570.1
52.5°	543.2	537.6	532.0	528.3	525.5
55°	494.9	488.4	487.4	482.8	482.8
57.5°	451.2	445.7	442.0	436.4	437.3
60°	405.7	400.2	398.3	393.7	393.7
62.5°	363.0	358.4	355.6	351.0	347.2
65°	324.0	317.5	312.0	308.3	309.2
67.5°	281.3	273.9	271.1	267.4	264.6
70°	240.5	235.8	231.2	226.5	226.5
72.5°	202.4	197.8	195.0	189.4	187.6
75°	167.1	161.6	156.9	153.2	150.4
77.5°	131.8	126.3	123.5	118.8	118.8
80°	98.4	94.7	91.9	90.1	86.3
82.5°	67.8	65.9	63.1	60.4	57.6
85°	39.9	39.0	37.1	32.5	31.6
87.5°	15.8	15.8	13.9	13.0	12.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)