

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: P296015

Luminaire Tested: **24RLN-LD5-36-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296015
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-4000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3244.0 lumens
Efficiency: N/A
Efficacy: 127.3 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

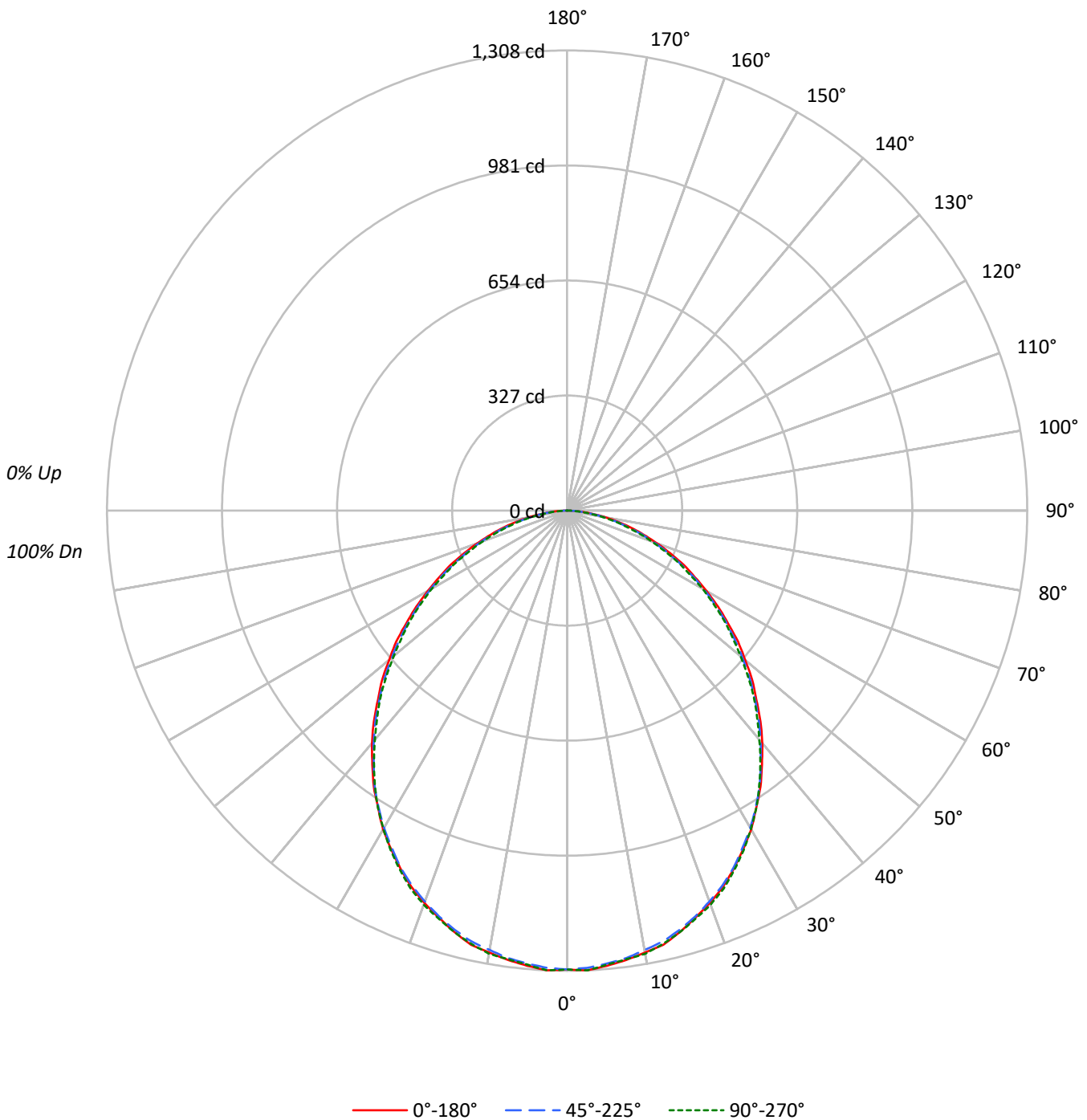
Input Watts (W): 25.482
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1755	1755	1755
5°	1754	1746	1750
10°	1743	1733	1747
15°	1728	1719	1728
20°	1699	1693	1707
25°	1666	1662	1672
30°	1626	1618	1623
35°	1575	1568	1564
40°	1516	1502	1493
45°	1448	1434	1428
50°	1382	1360	1345
55°	1308	1289	1277
60°	1231	1208	1194
65°	1163	1119	1110
70°	1066	1025	1005
75°	979	920	881
80°	859	803	754
85°	695	647	550



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.0	3.8
10°-20°	348.8	10.8
20°-30°	515.9	15.9
30°-40°	595.4	18.4
40°-50°	581.6	17.9
50°-60°	491.1	15.1
60°-70°	349.8	10.8
70°-80°	189.4	5.8
80°-90°	48.9	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°	987.8	30.4
0°-40°	1583.2	48.8
0°-60°	2655.9	81.9
0°-90°	3244.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3244.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1304	1304	1304	1304	1304	
5°	1299	1299	1292	1296	1296	123
15°	1240	1235	1234	1239	1240	349
25°	1122	1116	1120	1124	1126	517
35°	959	951	954	951	952	598
45°	761	755	754	750	750	588
55°	558	550	549	544	544	500
65°	365	358	352	348	348	360
75°	188	182	177	173	170	199
85°	45	44	42	37	36	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1304.0	1304.0	1304.0	1304.0	1304.0
2.5°	1308.2	1302.9	1300.9	1301.9	1308.2
5°	1298.8	1298.8	1292.5	1295.6	1295.6
7.5°	1288.3	1289.3	1283.1	1288.3	1286.2
10°	1275.7	1272.6	1268.4	1276.8	1278.9
12.5°	1264.2	1256.9	1254.8	1260.0	1261.1
15°	1240.2	1234.9	1233.9	1239.1	1240.2
17.5°	1212.9	1214.0	1209.8	1217.1	1216.1
20°	1186.8	1184.7	1182.6	1191.0	1192.0
22.5°	1157.5	1151.2	1153.3	1160.6	1162.7
25°	1121.9	1115.6	1119.8	1124.0	1126.1
27.5°	1084.2	1081.1	1080.0	1085.3	1087.4
30°	1046.5	1041.3	1041.3	1047.6	1044.5
32.5°	1000.5	996.3	998.4	1000.5	1001.5
35°	958.6	951.3	954.4	951.3	952.4
37.5°	909.4	904.2	903.2	902.1	902.1
40°	863.4	859.2	855.0	855.0	849.8
42.5°	813.2	807.9	805.8	802.7	799.6
45°	760.8	754.6	753.5	750.4	750.4
47.5°	713.7	704.3	703.3	697.0	697.0
50°	660.4	654.1	649.9	645.7	642.6
52.5°	612.2	605.9	599.7	595.5	592.3
55°	557.8	550.5	549.4	544.2	544.2
57.5°	508.6	502.3	498.2	491.9	492.9
60°	457.3	451.1	449.0	443.7	443.7
62.5°	409.2	404.0	400.8	395.6	391.4
65°	365.2	357.9	351.6	347.5	348.5
67.5°	317.1	308.7	305.6	301.4	298.3
70°	271.1	265.8	260.6	255.4	255.4
72.5°	228.1	222.9	219.8	213.5	211.4
75°	188.4	182.1	176.9	172.7	169.5
77.5°	148.6	142.3	139.2	134.0	134.0
80°	110.9	106.7	103.6	101.5	97.3
82.5°	76.4	74.3	71.2	68.0	64.9
85°	45.0	44.0	41.9	36.6	35.6
87.5°	17.8	17.8	15.7	14.7	13.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)