

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: P296477

Luminaire Tested: **22RLN-LD5-40-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296477
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-085-11)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22RLN-LD5-40-UNV-L93050-W2A1-U-3000K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (252) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3115.0 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.23 / 1.3
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

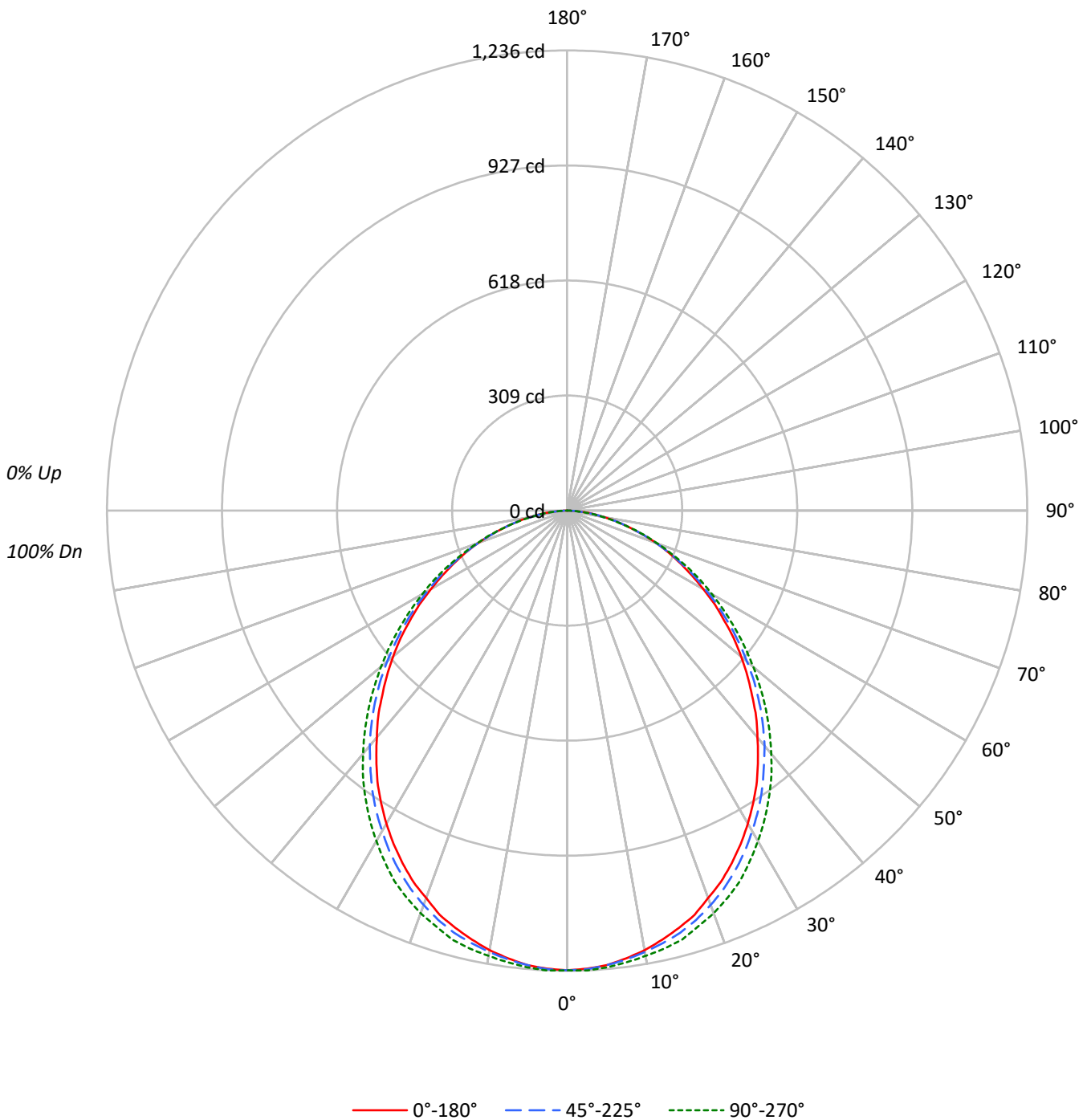
Input Watts (W): 32.829
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	71
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	46
6	71	58	50	43	70	57	49	43	56	48	43	54	47	42	52	47	42	40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	38	36
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3323	3323	3323
5°	3310	3310	3327
10°	3276	3289	3319
15°	3232	3271	3323
20°	3171	3229	3296
25°	3103	3168	3260
30°	3016	3089	3185
35°	2918	3000	3102
40°	2793	2897	2995
45°	2672	2778	2872
50°	2555	2640	2731
55°	2419	2492	2579
60°	2273	2332	2415
65°	2136	2176	2245
70°	1992	1992	2028
75°	1776	1776	1776
80°	1565	1516	1516
85°	1247	1198	1102



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.4	3.7
10°-20°	331.1	10.6
20°-30°	491.8	15.8
30°-40°	570.7	18.3
40°-50°	562.0	18.0
50°-60°	475.6	15.3
60°-70°	339.2	10.9
70°-80°	182.3	5.9
80°-90°	45.9	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°	939.3	30.2
0°-40°	1510.0	48.5
0°-60°	2547.6	81.8
0°-90°	3115.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3115.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1235	1235	1235	1235	1235	
5°	1225	1225	1225	1230	1232	116
15°	1160	1163	1174	1185	1193	327
25°	1045	1048	1067	1087	1098	481
35°	888	890	913	935	944	554
45°	702	707	730	747	755	543
55°	516	517	531	545	550	462
65°	336	336	342	348	353	333
75°	171	169	171	171	171	183
85°	40	39	39	36	36	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1234.7	1234.7	1234.7	1234.7	1234.7
2.5°	1231.6	1231.6	1233.2	1234.7	1236.3
5°	1225.4	1225.4	1225.4	1230.1	1231.6
7.5°	1213.0	1214.5	1216.1	1220.7	1223.8
10°	1199.0	1200.5	1203.7	1211.4	1214.5
12.5°	1180.4	1185.0	1189.7	1200.5	1205.2
15°	1160.2	1163.3	1174.1	1185.0	1192.8
17.5°	1138.4	1140.0	1152.4	1167.9	1171.0
20°	1107.4	1112.0	1127.6	1143.1	1150.9
22.5°	1079.4	1082.5	1099.6	1119.8	1126.0
25°	1045.2	1048.3	1067.0	1087.2	1098.0
27.5°	1009.5	1012.6	1032.8	1054.6	1062.3
30°	970.7	973.8	994.0	1017.3	1025.0
32.5°	930.3	933.4	955.2	975.3	986.2
35°	888.4	889.9	913.2	935.0	944.3
37.5°	841.8	846.4	868.2	889.9	900.8
40°	795.2	799.8	824.7	844.9	852.7
42.5°	751.7	757.9	778.1	796.7	804.5
45°	702.0	706.7	730.0	747.0	754.8
47.5°	657.0	661.6	681.8	698.9	703.6
50°	610.4	613.5	630.6	646.1	652.3
52.5°	563.8	565.3	580.9	596.4	601.1
55°	515.6	517.2	531.2	545.1	549.8
57.5°	470.6	470.6	483.0	493.9	498.5
60°	422.4	422.4	433.3	444.2	448.8
62.5°	377.4	377.4	388.3	396.0	402.3
65°	335.5	335.5	341.7	347.9	352.6
67.5°	295.1	290.4	296.6	304.4	302.9
70°	253.2	248.5	253.2	256.3	257.8
72.5°	211.2	208.1	211.2	212.8	215.9
75°	170.8	169.3	170.8	170.8	170.8
77.5°	136.7	132.0	135.1	133.6	132.0
80°	101.0	99.4	97.8	96.3	97.8
82.5°	69.9	68.3	68.3	65.2	65.2
85°	40.4	38.8	38.8	35.7	35.7
87.5°	15.5	15.5	14.0	14.0	14.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)