

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: P296524

Luminaire Tested: **22RLN-LD5-40-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296524  
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-L92765-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: 3263.0 lumens  
Efficiency: N/A  
Efficacy: 102.6 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

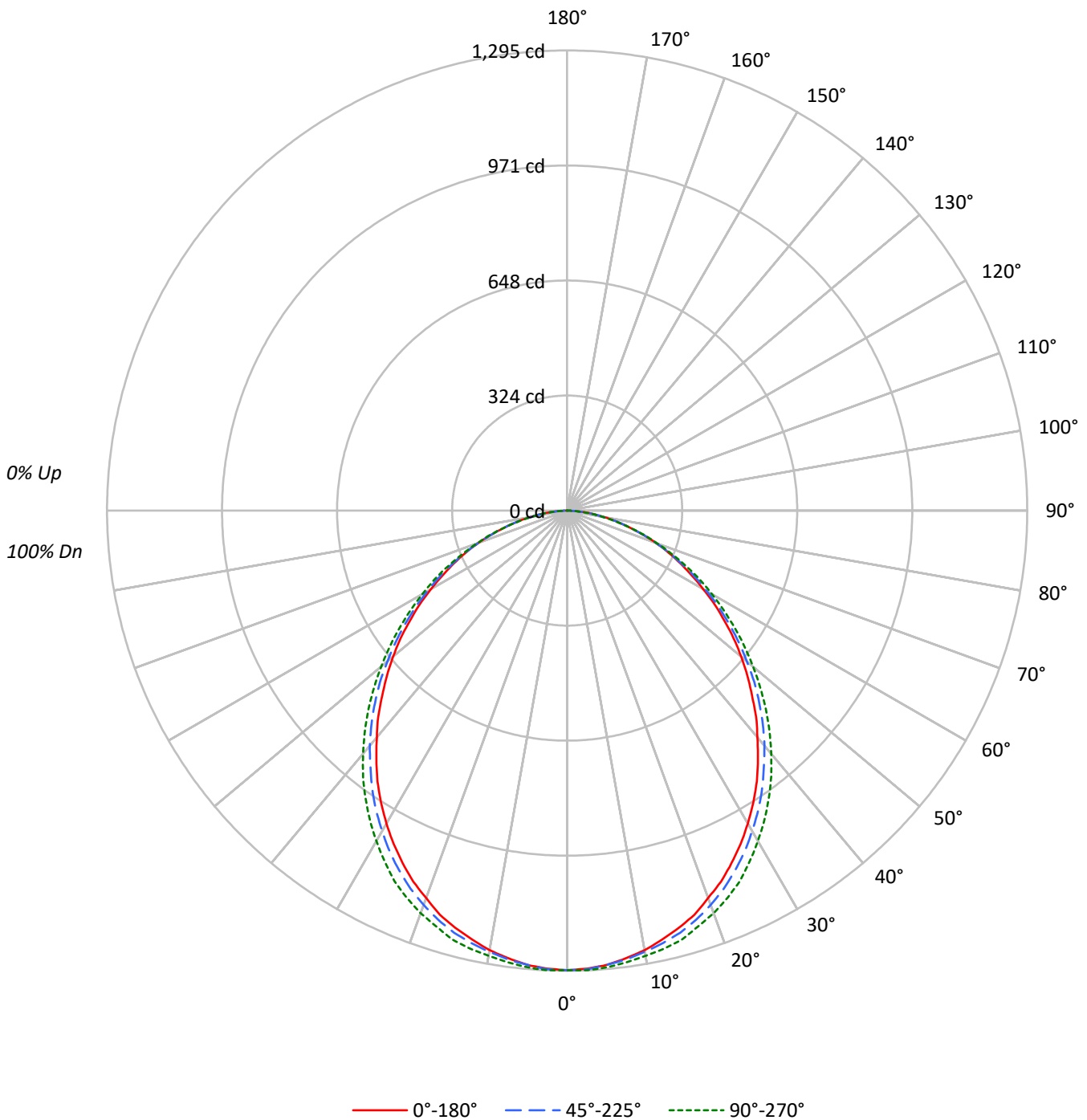
Input Watts (W): 31.806  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3481	3481	3481
5°	3467	3467	3485
10°	3432	3445	3476
15°	3386	3426	3481
20°	3322	3382	3452
25°	3251	3319	3415
30°	3159	3235	3337
35°	3057	3143	3250
40°	2926	3035	3138
45°	2799	2910	3009
50°	2677	2765	2861
55°	2534	2610	2702
60°	2382	2443	2531
65°	2238	2279	2351
70°	2087	2087	2125
75°	1861	1861	1861
80°	1638	1588	1588
85°	1306	1257	1155



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	122.0	3.7
10°-20°	346.8	10.6
20°-30°	515.2	15.8
30°-40°	597.9	18.3
40°-50°	588.7	18.0
50°-60°	498.2	15.3
60°-70°	355.3	10.9
70°-80°	190.9	5.9
80°-90°	48.1	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°	983.9	30.2
0°-40°	1581.8	48.5
0°-60°	2668.7	81.8
0°-90°	3263.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3263.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1293	1293	1293	1293	1293	
5°	1284	1284	1284	1288	1290	122
15°	1215	1218	1230	1241	1250	343
25°	1095	1098	1118	1139	1150	504
35°	931	932	957	979	989	581
45°	735	740	765	782	791	569
55°	540	542	556	571	576	484
65°	351	351	358	364	369	349
75°	179	177	179	179	179	192
85°	42	41	41	37	37	50
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1293.4	1293.4	1293.4	1293.4	1293.4
2.5°	1290.1	1290.1	1291.8	1293.4	1295.0
5°	1283.6	1283.6	1283.6	1288.5	1290.1
7.5°	1270.6	1272.2	1273.9	1278.7	1282.0
10°	1256.0	1257.6	1260.8	1269.0	1272.2
12.5°	1236.4	1241.3	1246.2	1257.6	1262.5
15°	1215.3	1218.5	1229.9	1241.3	1249.5
17.5°	1192.5	1194.1	1207.2	1223.4	1226.7
20°	1160.0	1164.9	1181.1	1197.4	1205.5
22.5°	1130.7	1133.9	1151.8	1173.0	1179.5
25°	1094.9	1098.2	1117.7	1138.8	1150.2
27.5°	1057.5	1060.7	1081.9	1104.7	1112.8
30°	1016.8	1020.1	1041.2	1065.6	1073.8
32.5°	974.5	977.8	1000.5	1021.7	1033.1
35°	930.6	932.2	956.6	979.4	989.2
37.5°	881.8	886.7	909.4	932.2	943.6
40°	833.0	837.9	863.9	885.0	893.2
42.5°	787.4	793.9	815.1	834.6	842.7
45°	735.4	740.2	764.6	782.5	790.7
47.5°	688.2	693.1	714.2	732.1	737.0
50°	639.4	642.6	660.5	676.8	683.3
52.5°	590.6	592.2	608.5	624.7	629.6
55°	540.1	541.8	556.4	571.0	575.9
57.5°	492.9	492.9	506.0	517.4	522.2
60°	442.5	442.5	453.9	465.3	470.2
62.5°	395.3	395.3	406.7	414.9	421.4
65°	351.4	351.4	357.9	364.4	369.3
67.5°	309.1	304.2	310.7	318.9	317.2
70°	265.2	260.3	265.2	268.4	270.1
72.5°	221.3	218.0	221.3	222.9	226.1
75°	179.0	177.3	179.0	179.0	179.0
77.5°	143.2	138.3	141.5	139.9	138.3
80°	105.7	104.1	102.5	100.9	102.5
82.5°	73.2	71.6	71.6	68.3	68.3
85°	42.3	40.7	40.7	37.4	37.4
87.5°	16.3	16.3	14.6	14.6	14.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)