

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: P296474

Luminaire Tested: **22RLN-LD5-35-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296474  
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-LD5-35-UNV-L93050-W2A1-U-4000K  
Description: RLN LED 2x2 TUNABLE WHITE TROFFER  
WITH STANDARD LENS  
Light Source: (252) 90 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3250.0 lumens  
Efficiency: N/A  
Efficacy: 113.5 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

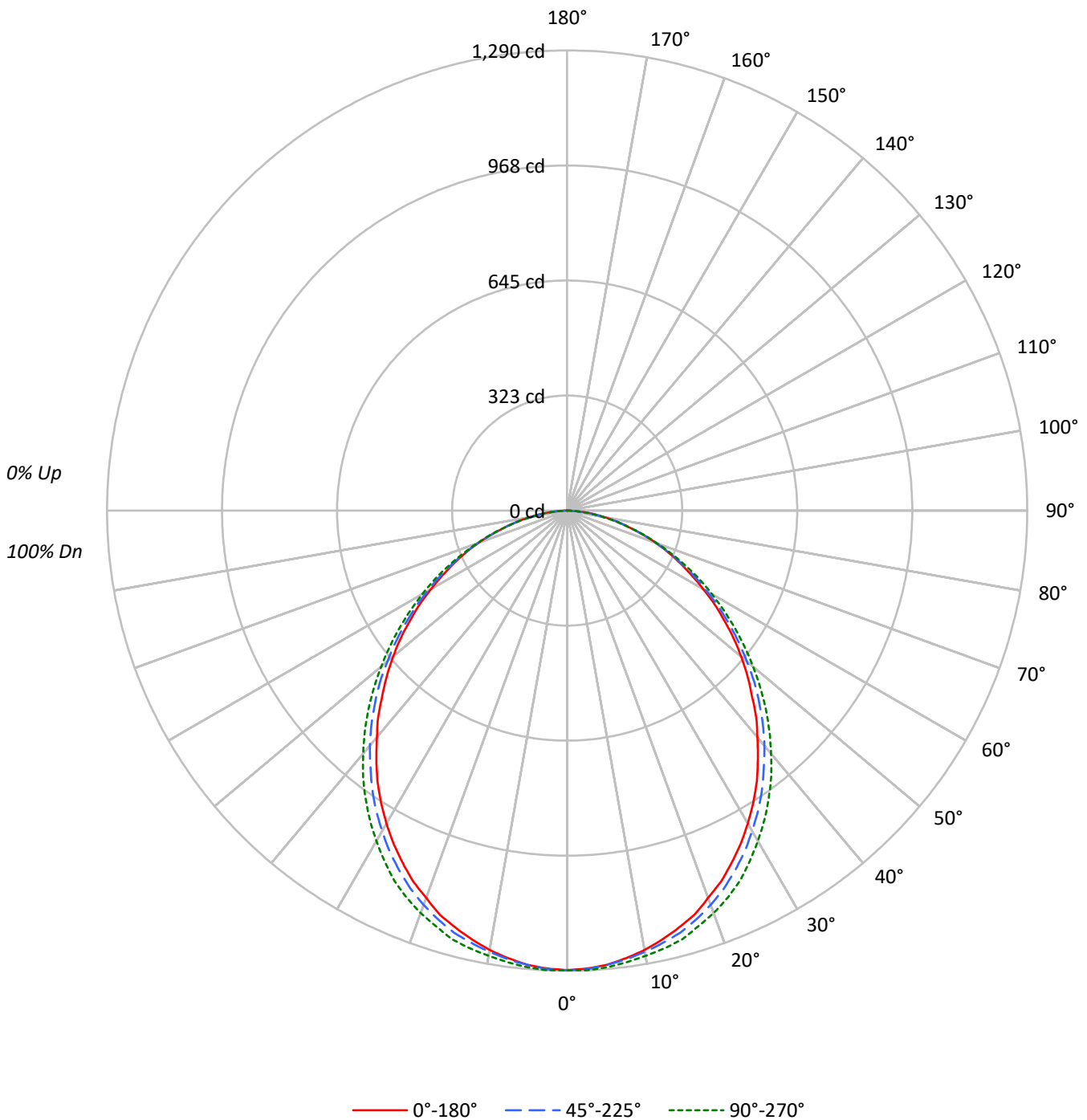
Input Watts (W): 28.644  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3467	3467	3467
5°	3454	3454	3471
10°	3418	3431	3463
15°	3372	3413	3467
20°	3309	3369	3438
25°	3238	3305	3401
30°	3147	3223	3323
35°	3045	3130	3236
40°	2915	3022	3125
45°	2787	2898	2997
50°	2666	2754	2849
55°	2524	2600	2691
60°	2372	2433	2520
65°	2229	2270	2342
70°	2078	2078	2116
75°	1853	1853	1853
80°	1632	1582	1582
85°	1300	1250	1152



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	121.5	3.7
10°-20°	345.4	10.6
20°-30°	513.1	15.8
30°-40°	595.5	18.3
40°-50°	586.4	18.0
50°-60°	496.2	15.3
60°-70°	353.9	10.9
70°-80°	190.2	5.9
80°-90°	47.9	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°	980.0	30.2
0°-40°	1575.5	48.5
0°-60°	2658.0	81.8
0°-90°	3250.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3250.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1288	1288	1288	1288	1288	
5°	1278	1278	1278	1283	1285	121
15°	1210	1214	1225	1236	1244	341
25°	1090	1094	1113	1134	1146	502
35°	927	928	953	976	985	578
45°	732	737	762	779	788	566
55°	538	540	554	569	574	482
65°	350	350	356	363	368	347
75°	178	177	178	178	178	191
85°	42	40	40	37	37	50
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1288.2	1288.2	1288.2	1288.2	1288.2
2.5°	1285.0	1285.0	1286.6	1288.2	1289.8
5°	1278.5	1278.5	1278.5	1283.4	1285.0
7.5°	1265.5	1267.2	1268.8	1273.6	1276.9
10°	1251.0	1252.6	1255.8	1263.9	1267.2
12.5°	1231.5	1236.4	1241.2	1252.6	1257.4
15°	1210.4	1213.7	1225.0	1236.4	1244.5
17.5°	1187.8	1189.4	1202.3	1218.6	1221.8
20°	1155.4	1160.2	1176.4	1192.6	1200.7
22.5°	1126.2	1129.4	1147.3	1168.3	1174.8
25°	1090.5	1093.8	1113.2	1134.3	1145.6
27.5°	1053.3	1056.5	1077.6	1100.3	1108.4
30°	1012.8	1016.0	1037.1	1061.4	1069.5
32.5°	970.6	973.9	996.6	1017.6	1029.0
35°	926.9	928.5	952.8	975.5	985.2
37.5°	878.3	883.1	905.8	928.5	939.8
40°	829.7	834.5	860.4	881.5	889.6
42.5°	784.3	790.8	811.8	831.3	839.4
45°	732.4	737.3	761.6	779.4	787.5
47.5°	685.4	690.3	711.4	729.2	734.0
50°	636.8	640.1	657.9	674.1	680.6
52.5°	588.2	589.8	606.0	622.2	627.1
55°	538.0	539.6	554.2	568.8	573.6
57.5°	491.0	491.0	503.9	515.3	520.2
60°	440.8	440.8	452.1	463.4	468.3
62.5°	393.8	393.8	405.1	413.2	419.7
65°	350.0	350.0	356.5	363.0	367.8
67.5°	307.9	303.0	309.5	317.6	316.0
70°	264.1	259.3	264.1	267.4	269.0
72.5°	220.4	217.1	220.4	222.0	225.2
75°	178.2	176.6	178.2	178.2	178.2
77.5°	142.6	137.7	141.0	139.4	137.7
80°	105.3	103.7	102.1	100.5	102.1
82.5°	72.9	71.3	71.3	68.1	68.1
85°	42.1	40.5	40.5	37.3	37.3
87.5°	16.2	16.2	14.6	14.6	14.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)