

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: P296473

Luminaire Tested: **22RLN-LD5-35-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296473  
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-3500K  
Description: RLN LED 2x2 TUNABLE WHITE TROFFER  
WITH STANDARD LENS  
Light Source: (252) 90 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3009.0 lumens  
Efficiency: N/A  
Efficacy: 105.7 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

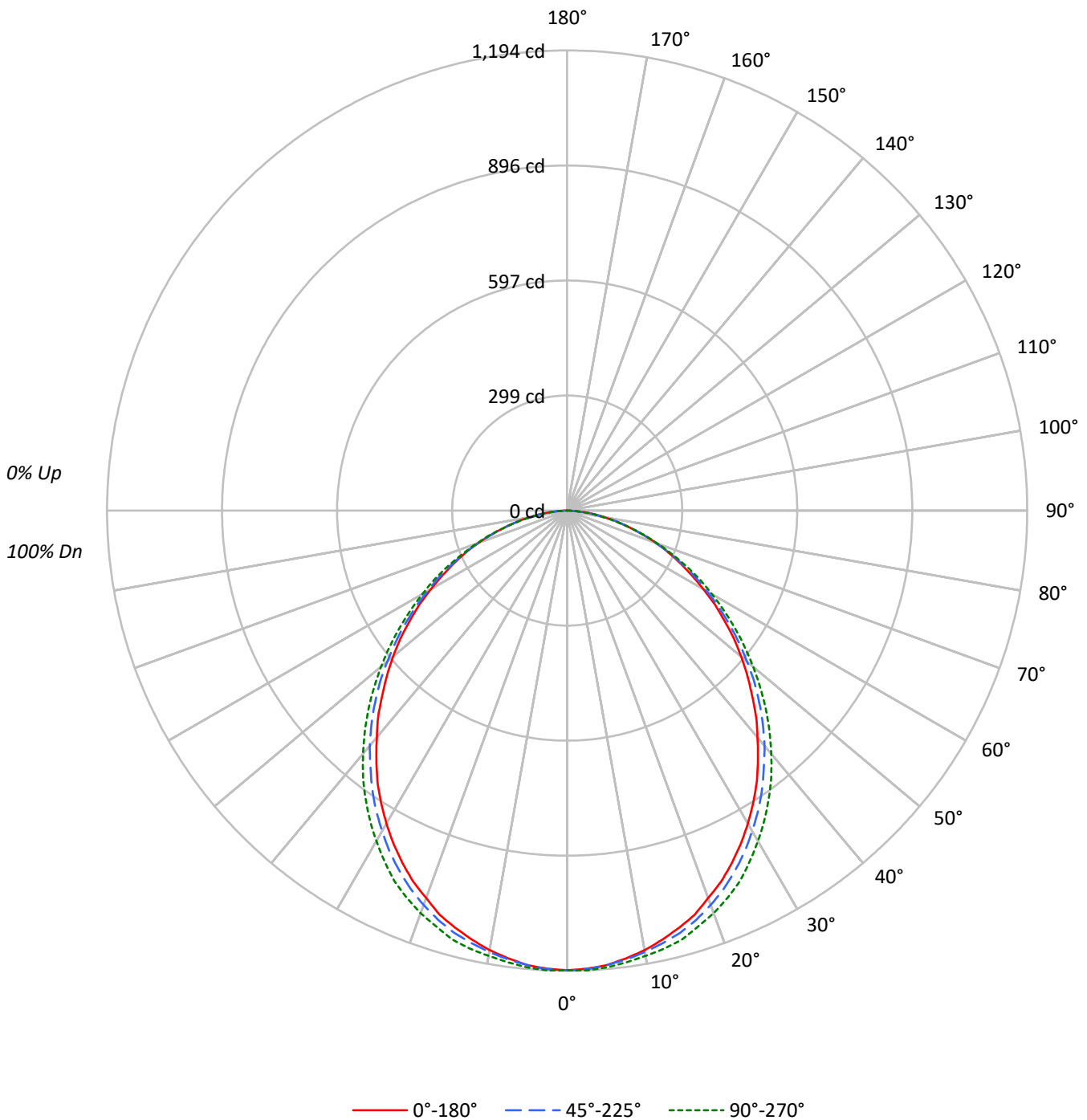
Input Watts (W): 28.458  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3210	3210	3210
5°	3197	3197	3214
10°	3165	3177	3206
15°	3122	3160	3210
20°	3063	3119	3184
25°	2998	3060	3149
30°	2914	2984	3077
35°	2819	2898	2997
40°	2698	2798	2893
45°	2581	2683	2775
50°	2468	2550	2638
55°	2337	2407	2492
60°	2196	2253	2334
65°	2064	2102	2169
70°	1924	1924	1959
75°	1716	1716	1716
80°	1511	1464	1464
85°	1204	1158	1065



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.5	3.7
10°-20°	319.8	10.6
20°-30°	475.1	15.8
30°-40°	551.3	18.3
40°-50°	542.9	18.0
50°-60°	459.4	15.3
60°-70°	327.6	10.9
70°-80°	176.0	5.9
80°-90°	44.4	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°	907.3	30.2
0°-40°	1458.7	48.5
0°-60°	2460.9	81.8
0°-90°	3009.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3009.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1193	1193	1193	1193	1193	
5°	1184	1184	1184	1188	1190	112
15°	1121	1124	1134	1145	1152	316
25°	1010	1013	1031	1050	1061	465
35°	858	860	882	903	912	535
45°	678	683	705	722	729	524
55°	498	500	513	527	531	446
65°	324	324	330	336	341	322
75°	165	164	165	165	165	177
85°	39	38	38	34	34	46
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1192.7	1192.7	1192.7	1192.7	1192.7
2.5°	1189.7	1189.7	1191.2	1192.7	1194.2
5°	1183.7	1183.7	1183.7	1188.2	1189.7
7.5°	1171.7	1173.2	1174.7	1179.2	1182.2
10°	1158.2	1159.7	1162.7	1170.2	1173.2
12.5°	1140.2	1144.7	1149.2	1159.7	1164.2
15°	1120.7	1123.7	1134.2	1144.7	1152.2
17.5°	1099.7	1101.2	1113.2	1128.2	1131.2
20°	1069.7	1074.2	1089.2	1104.2	1111.7
22.5°	1042.7	1045.7	1062.2	1081.7	1087.7
25°	1009.7	1012.7	1030.7	1050.2	1060.7
27.5°	975.2	978.2	997.7	1018.7	1026.2
30°	937.7	940.7	960.2	982.7	990.2
32.5°	898.7	901.7	922.7	942.2	952.7
35°	858.1	859.6	882.1	903.2	912.2
37.5°	813.1	817.6	838.6	859.6	870.1
40°	768.1	772.6	796.6	816.1	823.6
42.5°	726.1	732.1	751.6	769.6	777.1
45°	678.1	682.6	705.1	721.6	729.1
47.5°	634.6	639.1	658.6	675.1	679.6
50°	589.6	592.6	609.1	624.1	630.1
52.5°	544.6	546.1	561.1	576.1	580.6
55°	498.1	499.6	513.1	526.6	531.1
57.5°	454.6	454.6	466.6	477.1	481.6
60°	408.1	408.1	418.6	429.1	433.6
62.5°	364.6	364.6	375.1	382.6	388.6
65°	324.1	324.1	330.1	336.1	340.6
67.5°	285.0	280.5	286.5	294.0	292.5
70°	244.5	240.0	244.5	247.5	249.0
72.5°	204.0	201.0	204.0	205.5	208.5
75°	165.0	163.5	165.0	165.0	165.0
77.5°	132.0	127.5	130.5	129.0	127.5
80°	97.5	96.0	94.5	93.0	94.5
82.5°	67.5	66.0	66.0	63.0	63.0
85°	39.0	37.5	37.5	34.5	34.5
87.5°	15.0	15.0	13.5	13.5	13.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)