

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: P229618

Luminaire Tested: **22RLN-LD5-40-RDP-UNV-L835-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P229618  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36060)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22RLN-LD5-40-RDP-UNV-L835-CD1-U  
Description: METALUX 2X2 RLN LED TROFFER WITH RDP LENS  
Light Source: (126)3500K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3280.0 lumens  
Efficiency: N/A  
Efficacy: 92.1 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.38 / 1.41  
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')  
CIE Type: Direct

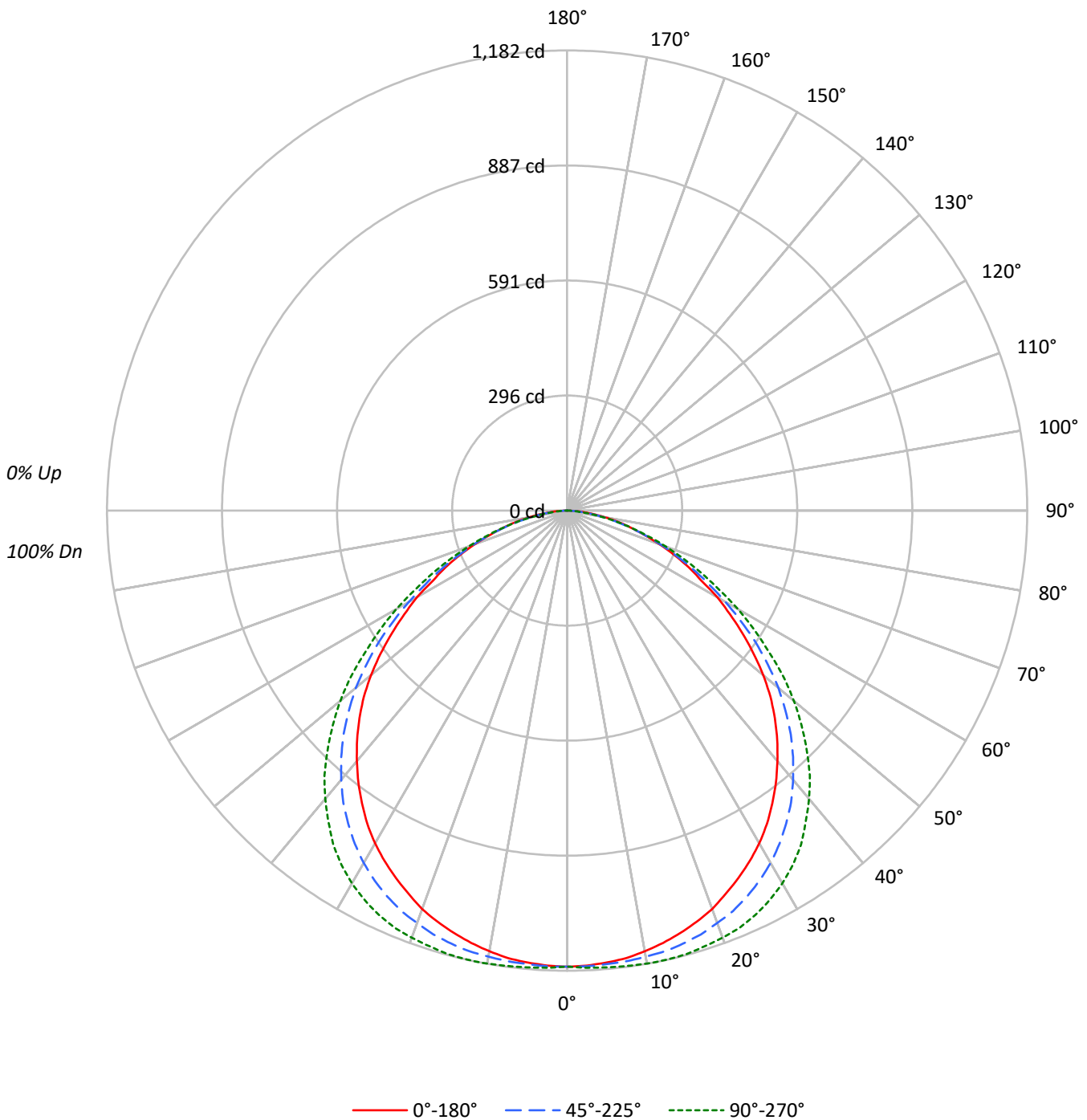
Input Watts (W): 35.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	103	99	96	98	95	93	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	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	27	39	32	27	38	32	27	37	31	27	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3752	3752	3752
5°	3747	3760	3786
10°	3739	3784	3843
15°	3725	3818	3911
20°	3713	3843	3979
25°	3679	3864	4048
30°	3650	3865	4088
35°	3592	3835	4094
40°	3514	3774	4043
45°	3416	3680	3944
50°	3278	3529	3789
55°	3069	3304	3529
60°	2853	3007	3251
65°	2615	2706	2889
70°	2367	2405	2517
75°	2085	2036	2110
80°	1813	1665	1592
85°	1474	1106	959



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	111.6	3.4
10°-20°	325.3	9.9
20°-30°	504.0	15.4
30°-40°	613.4	18.7
40°-50°	624.7	19.0
50°-60°	526.8	16.1
60°-70°	356.4	10.9
70°-80°	178.1	5.4
80°-90°	39.6	1.2
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°	940.9	28.7
0°-40°	1554.3	47.4
0°-60°	2705.9	82.5
0°-90°	3280.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3280.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1172	1172	1172	1172	1172	
5°	1166	1168	1170	1176	1178	111
15°	1124	1132	1152	1172	1180	317
25°	1041	1057	1093	1130	1146	480
35°	919	939	981	1027	1047	574
45°	754	768	812	855	871	581
55°	550	558	592	620	632	492
65°	345	339	357	373	381	341
75°	168	162	164	166	170	181
85°	40	34	30	26	26	47
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1171.6	1171.6	1171.6	1171.6	1171.6
2.5°	1169.6	1169.6	1171.6	1173.6	1175.6
5°	1165.6	1167.6	1169.6	1175.6	1177.6
7.5°	1159.6	1161.6	1167.6	1175.6	1179.7
10°	1149.6	1153.6	1163.6	1175.6	1181.7
12.5°	1137.5	1143.5	1159.6	1173.6	1181.7
15°	1123.5	1131.5	1151.6	1171.6	1179.7
17.5°	1107.4	1117.5	1141.5	1163.6	1173.6
20°	1089.4	1101.4	1127.5	1155.6	1167.6
22.5°	1065.3	1081.3	1113.4	1145.5	1159.6
25°	1041.2	1057.3	1093.4	1129.5	1145.5
27.5°	1015.1	1033.2	1071.3	1111.4	1127.5
30°	987.1	1003.1	1045.2	1087.4	1105.4
32.5°	955.0	971.0	1015.1	1059.3	1079.3
35°	918.8	938.9	981.0	1027.2	1047.2
37.5°	880.7	898.8	944.9	989.1	1007.1
40°	840.6	858.7	902.8	948.9	967.0
42.5°	798.5	816.5	858.7	902.8	922.9
45°	754.3	768.4	812.5	854.6	870.7
47.5°	708.2	718.2	760.4	800.5	816.5
50°	658.0	668.1	708.2	744.3	760.4
52.5°	603.9	611.9	650.0	682.1	700.2
55°	549.7	557.7	591.8	619.9	632.0
57.5°	495.5	499.5	529.6	557.7	569.8
60°	445.4	445.4	469.5	491.5	507.6
62.5°	387.2	393.2	411.3	433.3	439.4
65°	345.1	339.0	357.1	373.2	381.2
67.5°	296.9	292.9	304.9	319.0	323.0
70°	252.8	246.8	256.8	264.8	268.8
72.5°	206.6	204.6	208.6	214.7	216.7
75°	168.5	162.5	164.5	166.5	170.5
77.5°	134.4	124.4	126.4	124.4	126.4
80°	98.3	90.3	90.3	88.3	86.3
82.5°	66.2	62.2	58.2	54.2	52.2
85°	40.1	34.1	30.1	26.1	26.1
87.5°	16.0	12.0	10.0	10.0	10.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)