

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: P229678

Luminaire Tested: **22RLN-LD5-40-UNV-L940-CD1-SVPD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P229678  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36063)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22RLN-LD5-40-UNV-L940-CD1-SVPD1-U  
Description: METALUX 2X2 RLN LED TROFFER WITH SENSOR  
Light Source: (126)4000K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3441.0 lumens  
Efficiency: N/A  
Efficacy: 96.7 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.21 / 1.29  
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')  
CIE Type: Direct

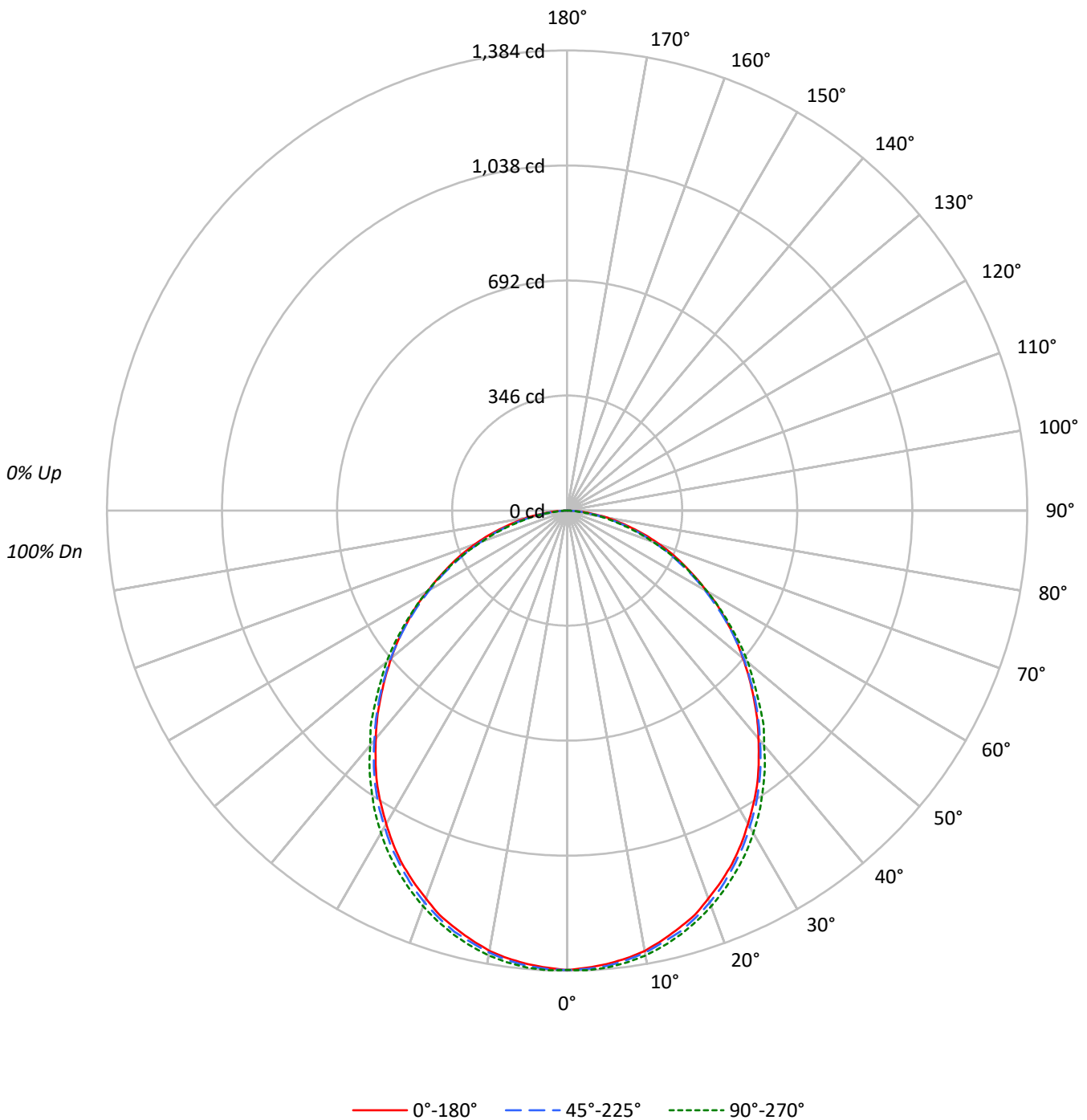
Input Watts (W): 35.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52
5	77	65	56	50	75	64	55	49	62	54	49	60	53	48	58	52	48	46
6	72	58	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	38	51	44	38	49	43	38	48	42	38	36
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	57	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26

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

	0°	45°	90°
0°	4425	4425	4425
5°	4402	4419	4436
10°	4373	4390	4419
15°	4312	4347	4376
20°	4233	4275	4317
25°	4145	4176	4239
30°	4024	4063	4141
35°	3901	3936	4012
40°	3743	3772	3854
45°	3590	3614	3694
50°	3438	3455	3534
55°	3280	3270	3329
60°	3105	3060	3116
65°	2936	2829	2896
70°	2750	2601	2552
75°	2496	2299	2211
80°	2252	1959	1828
85°	1756	1367	1169



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	130.4	3.8
10°-20°	369.2	10.7
20°-30°	545.1	15.8
30°-40°	630.4	18.3
40°-50°	618.3	18.0
50°-60°	525.8	15.3
60°-70°	374.6	10.9
70°-80°	199.8	5.8
80°-90°	47.5	1.4
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°	1044.7	30.4
0°-40°	1675.1	48.7
0°-60°	2819.2	81.9
0°-90°	3441.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3441.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1382	1382	1382	1382	1382	
5°	1369	1371	1375	1378	1380	130
15°	1300	1302	1311	1318	1320	367
25°	1173	1175	1182	1194	1200	539
35°	998	994	1007	1023	1026	623
45°	793	791	798	812	816	612
55°	587	582	586	593	596	526
65°	388	375	373	375	382	384
75°	202	191	186	182	179	216
85°	48	42	37	32	32	57
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1381.7	1381.7	1381.7	1381.7	1381.7
2.5°	1376.4	1378.2	1380.0	1383.5	1383.5
5°	1369.4	1371.1	1374.7	1378.2	1380.0
7.5°	1358.7	1358.7	1364.1	1367.6	1371.1
10°	1344.6	1346.4	1349.9	1355.2	1358.7
12.5°	1323.4	1326.9	1330.4	1337.5	1341.1
15°	1300.4	1302.1	1311.0	1318.1	1319.8
17.5°	1275.6	1275.6	1284.4	1291.5	1295.1
20°	1242.0	1245.5	1254.4	1263.2	1266.7
22.5°	1208.4	1211.9	1220.7	1229.6	1234.9
25°	1173.0	1174.7	1181.8	1194.2	1199.5
27.5°	1132.3	1135.8	1142.9	1155.3	1162.4
30°	1088.1	1091.6	1098.7	1112.8	1119.9
32.5°	1043.8	1047.4	1054.4	1068.6	1075.7
35°	997.8	994.3	1006.7	1022.6	1026.1
37.5°	946.5	948.3	955.4	969.5	976.6
40°	895.2	895.2	902.3	918.2	921.8
42.5°	845.7	843.9	851.0	865.1	874.0
45°	792.6	790.8	797.9	812.1	815.6
47.5°	741.3	737.8	744.8	757.2	760.8
50°	690.0	686.4	693.5	704.1	709.4
52.5°	640.4	633.4	638.7	647.5	652.8
55°	587.4	582.1	585.6	592.7	596.2
57.5°	539.6	529.0	530.8	537.8	541.4
60°	484.8	475.9	477.7	484.8	486.5
62.5°	435.2	426.4	426.4	428.1	431.7
65°	387.5	375.1	373.3	375.1	382.1
67.5°	341.5	329.1	325.5	325.5	327.3
70°	293.7	281.3	277.8	276.0	272.5
72.5°	249.5	233.5	231.8	226.5	228.2
75°	201.7	191.1	185.8	182.2	178.7
77.5°	159.2	150.4	143.3	138.0	138.0
80°	122.1	109.7	106.2	99.1	99.1
82.5°	81.4	76.1	69.0	63.7	61.9
85°	47.8	42.5	37.2	31.8	31.8
87.5°	17.7	14.2	12.4	12.4	12.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)