

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: P229666

Luminaire Tested: **22RLN-LD5-40-UNV-L930-CD1-SVPD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P229666  
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-L930-CD1-SVPD1-U  
Description: METALUX 2X2 RLN LED TROFFER WITH SENSOR  
Light Source: (126)3000K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3233.0 lumens  
Efficiency: N/A  
Efficacy: 90.8 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

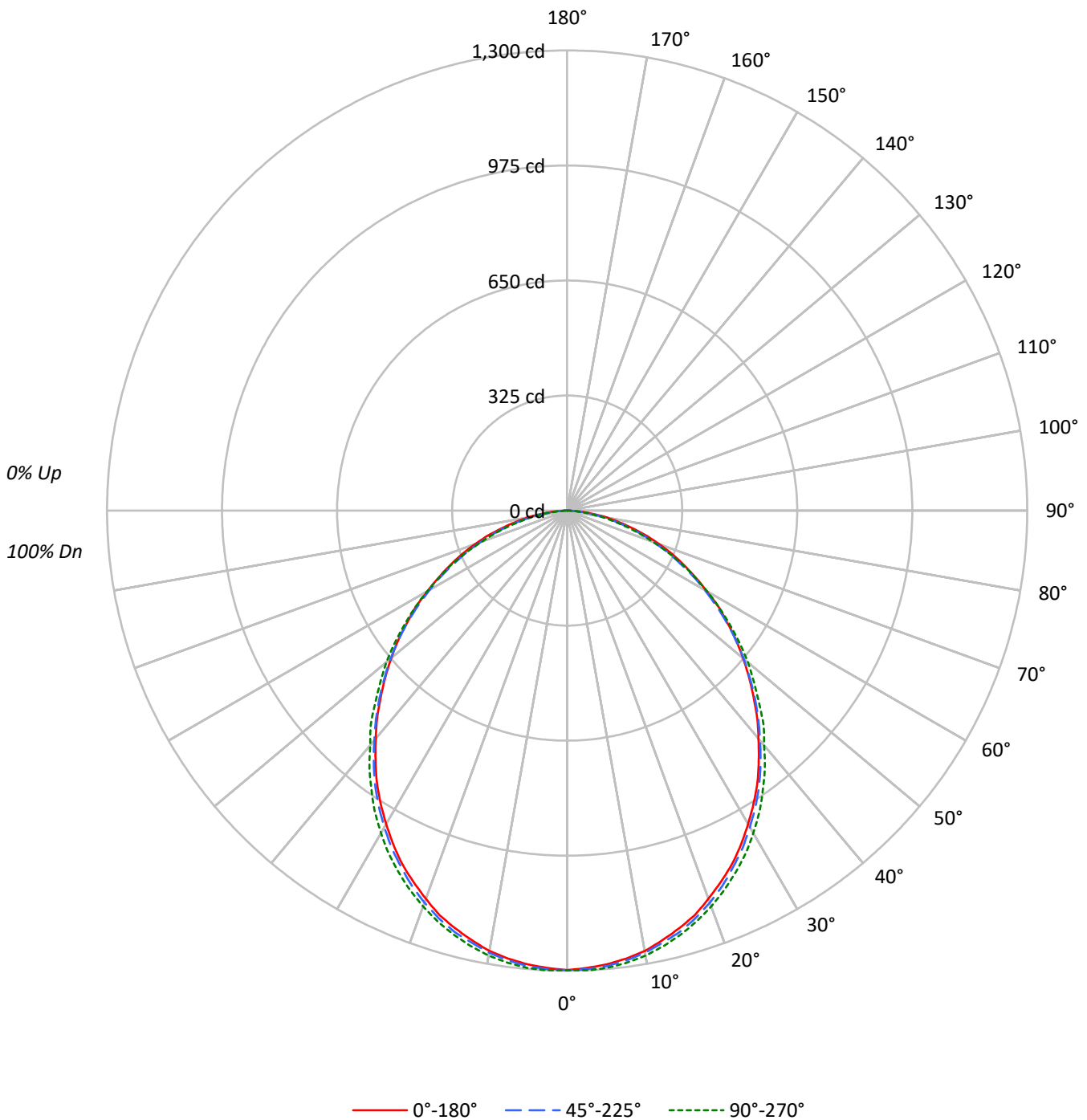
Input Watts (W): 35.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4158	4158	4158
5°	4136	4152	4168
10°	4108	4125	4152
15°	4051	4084	4111
20°	3977	4016	4056
25°	3894	3924	3982
30°	3781	3817	3891
35°	3665	3698	3769
40°	3516	3544	3620
45°	3373	3396	3471
50°	3230	3247	3321
55°	3082	3072	3128
60°	2918	2875	2928
65°	2758	2658	2721
70°	2583	2444	2397
75°	2345	2159	2078
80°	2115	1839	1717
85°	1650	1282	1099



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	122.5	3.8
10°-20°	346.9	10.7
20°-30°	512.2	15.8
30°-40°	592.2	18.3
40°-50°	580.9	18.0
50°-60°	494.0	15.3
60°-70°	351.9	10.9
70°-80°	187.7	5.8
80°-90°	44.6	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°	981.6	30.4
0°-40°	1573.8	48.7
0°-60°	2648.8	81.9
0°-90°	3233.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3233.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1298	1298	1298	1298	1298	
5°	1287	1288	1292	1295	1297	122
15°	1222	1223	1232	1238	1240	344
25°	1102	1104	1110	1122	1127	507
35°	938	934	946	961	964	585
45°	745	743	750	763	766	575
55°	552	547	550	557	560	495
65°	364	352	351	352	359	361
75°	190	180	174	171	168	203
85°	45	40	35	30	30	53
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1298.2	1298.2	1298.2	1298.2	1298.2
2.5°	1293.2	1294.9	1296.6	1299.9	1299.9
5°	1286.6	1288.2	1291.6	1294.9	1296.6
7.5°	1276.6	1276.6	1281.6	1284.9	1288.2
10°	1263.3	1265.0	1268.3	1273.3	1276.6
12.5°	1243.4	1246.7	1250.0	1256.7	1260.0
15°	1221.8	1223.4	1231.7	1238.4	1240.0
17.5°	1198.5	1198.5	1206.8	1213.4	1216.8
20°	1166.9	1170.2	1178.5	1186.8	1190.2
22.5°	1135.3	1138.6	1147.0	1155.3	1160.3
25°	1102.1	1103.7	1110.4	1122.0	1127.0
27.5°	1063.8	1067.2	1073.8	1085.5	1092.1
30°	1022.3	1025.6	1032.3	1045.6	1052.2
32.5°	980.7	984.1	990.7	1004.0	1010.6
35°	937.5	934.2	945.8	960.8	964.1
37.5°	889.3	891.0	897.6	910.9	917.6
40°	841.1	841.1	847.7	862.7	866.0
42.5°	794.6	792.9	799.5	812.8	821.2
45°	744.7	743.0	749.7	763.0	766.3
47.5°	696.5	693.2	699.8	711.4	714.8
50°	648.3	645.0	651.6	661.6	666.6
52.5°	601.7	595.1	600.1	608.4	613.4
55°	551.9	546.9	550.2	556.9	560.2
57.5°	507.0	497.0	498.7	505.3	508.6
60°	455.5	447.1	448.8	455.5	457.1
62.5°	408.9	400.6	400.6	402.3	405.6
65°	364.0	352.4	350.7	352.4	359.0
67.5°	320.8	309.2	305.9	305.9	307.5
70°	275.9	264.3	261.0	259.3	256.0
72.5°	234.4	219.4	217.8	212.8	214.4
75°	189.5	179.5	174.5	171.2	167.9
77.5°	149.6	141.3	134.6	129.7	129.7
80°	114.7	103.1	99.7	93.1	93.1
82.5°	76.5	71.5	64.8	59.8	58.2
85°	44.9	39.9	34.9	29.9	29.9
87.5°	16.6	13.3	11.6	11.6	11.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)