

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: P229594

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229594
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36050)
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-U
Description: METALUX 2X2 RLN LED TROFFER
Light Source: (126)3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3357.0 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.31
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

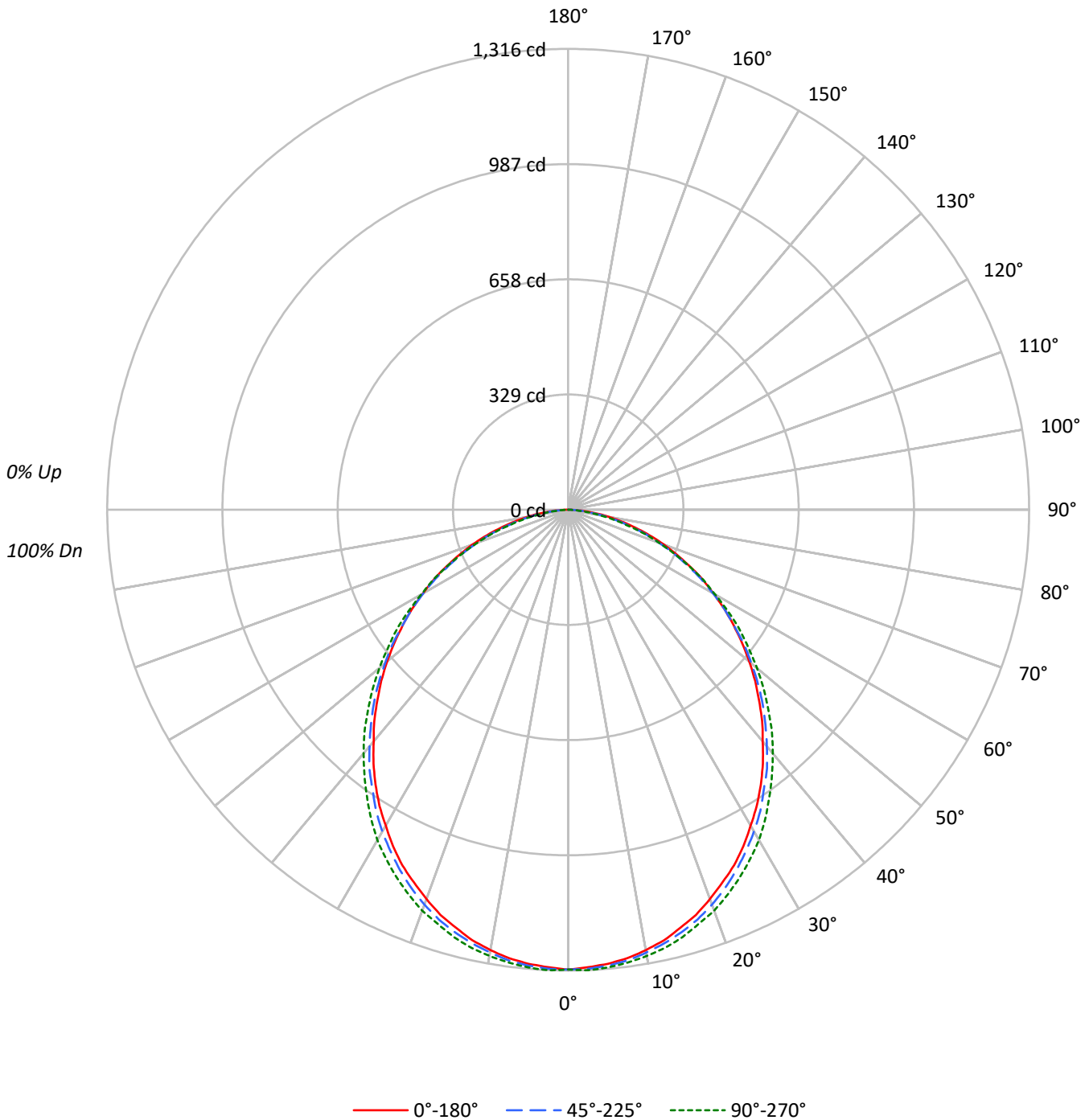
Input Watts (W): 35.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	73	71
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	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	51	43	38	49	42	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	28
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°	4206	4206	4206
5°	4184	4201	4218
10°	4153	4177	4208
15°	4100	4142	4188
20°	4033	4091	4153
25°	3960	4012	4095
30°	3853	3924	4030
35°	3749	3807	3915
40°	3613	3688	3799
45°	3489	3557	3658
50°	3362	3398	3505
55°	3221	3226	3340
60°	3067	3053	3101
65°	2903	2839	2879
70°	2720	2581	2591
75°	2462	2264	2199
80°	2178	1903	1767
85°	1760	1330	1135



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.1	3.7
10°-20°	352.3	10.5
20°-30°	523.7	15.6
30°-40°	611.3	18.2
40°-50°	606.8	18.1
50°-60°	520.7	15.5
60°-70°	373.7	11.1
70°-80°	198.0	5.9
80°-90°	46.4	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°	1000.1	29.8
0°-40°	1611.4	48.0
0°-60°	2738.8	81.6
0°-90°	3357.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3357.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1313	1313	1313	1313	1313	
5°	1302	1304	1307	1311	1312	123
15°	1236	1241	1249	1259	1263	349
25°	1121	1124	1136	1152	1159	515
35°	959	962	974	995	1001	599
45°	770	774	785	799	808	595
55°	577	574	578	591	598	516
65°	383	374	375	378	380	380
75°	199	189	183	181	178	212
85°	48	42	36	31	31	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1313.2	1313.2	1313.2	1313.2	1313.2
2.5°	1307.8	1308.9	1312.1	1315.3	1316.4
5°	1301.5	1303.6	1306.8	1311.0	1312.1
7.5°	1291.9	1294.0	1298.3	1302.5	1304.7
10°	1277.0	1280.2	1284.4	1291.9	1294.0
12.5°	1260.0	1262.1	1268.5	1277.0	1281.2
15°	1236.5	1240.8	1249.3	1258.9	1263.2
17.5°	1213.1	1216.3	1227.0	1236.5	1239.7
20°	1183.3	1189.7	1200.4	1212.1	1218.5
22.5°	1151.4	1156.7	1169.5	1183.3	1189.7
25°	1120.6	1123.7	1135.5	1152.5	1158.9
27.5°	1083.3	1086.5	1099.3	1116.3	1124.8
30°	1041.8	1047.1	1061.0	1080.1	1089.7
32.5°	1002.4	1006.7	1020.5	1037.6	1047.1
35°	958.8	962.0	973.7	995.0	1001.4
37.5°	913.0	916.2	932.2	948.2	955.6
40°	864.1	868.4	882.2	898.1	908.8
42.5°	819.4	821.5	833.2	851.3	860.9
45°	770.4	773.6	785.3	799.2	807.7
47.5°	723.6	722.6	734.3	750.2	756.6
50°	674.7	672.5	682.1	698.1	703.4
52.5°	625.7	622.5	633.2	644.9	649.1
55°	576.8	573.6	577.8	590.6	598.1
57.5°	528.9	523.6	528.9	535.3	541.7
60°	478.9	470.4	476.7	484.2	484.2
62.5°	433.1	423.5	426.7	432.0	435.2
65°	383.1	373.5	374.6	377.8	379.9
67.5°	336.3	326.7	324.6	325.6	326.7
70°	290.5	279.9	275.6	273.5	276.7
72.5°	243.7	233.0	230.9	226.7	227.7
75°	199.0	189.4	183.0	180.9	177.7
77.5°	156.4	147.9	142.6	136.2	135.1
80°	118.1	107.5	103.2	99.0	95.8
82.5°	83.0	73.4	66.0	61.7	58.5
85°	47.9	41.5	36.2	30.9	30.9
87.5°	19.2	14.9	12.8	11.7	10.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)