

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: P229576

Luminaire Tested: **22RLN-LD5-40-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229576
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-L830-CD1-U
Description: METALUX 2X2 RLN LED TROFFER
Light Source: (126)3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3882.0 lumens
Efficiency: N/A
Efficacy: 109.0 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

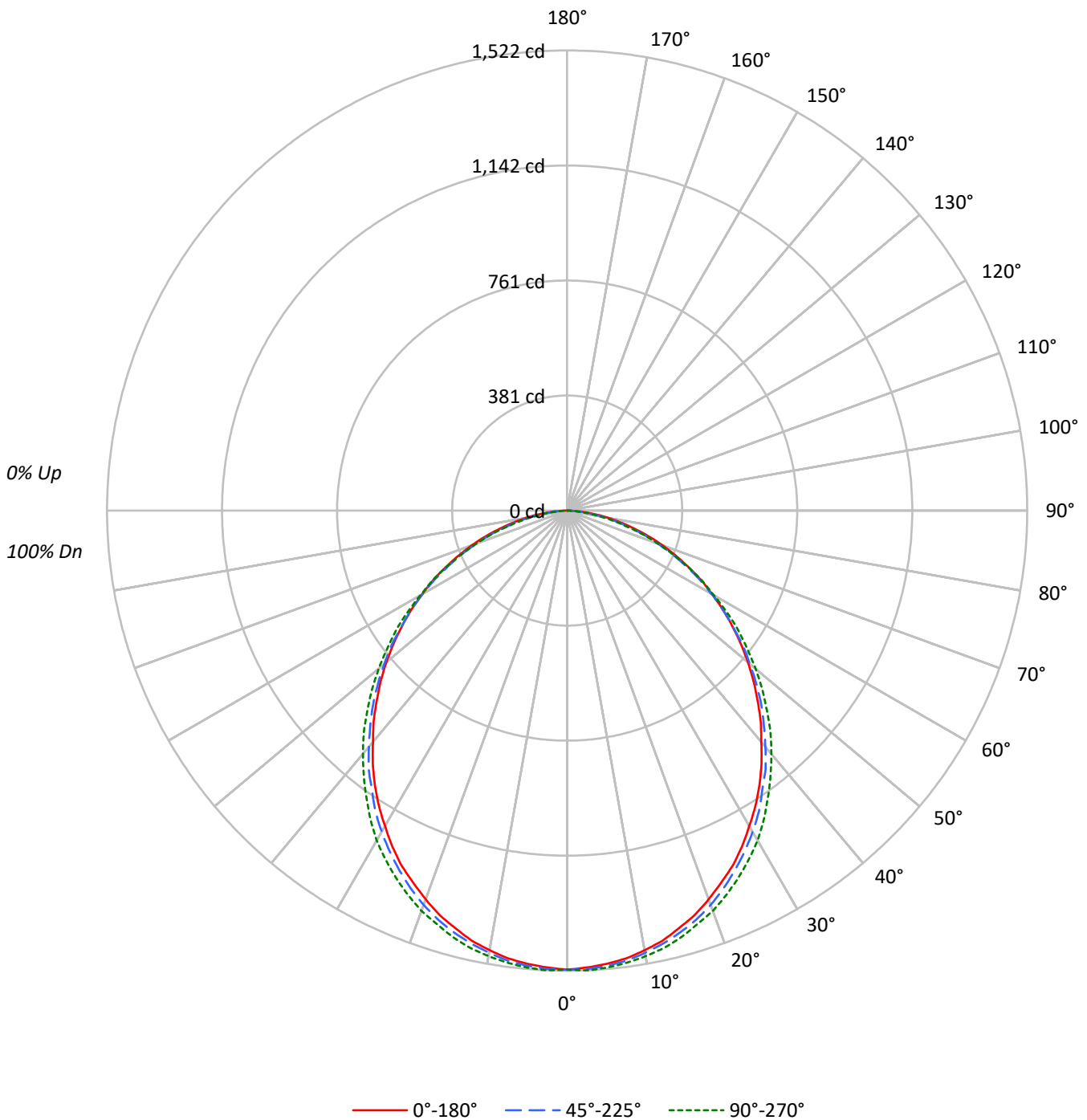
Input Watts (W): 35.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4863	4863	4863
5°	4838	4858	4878
10°	4802	4830	4866
15°	4741	4790	4843
20°	4664	4731	4802
25°	4579	4640	4735
30°	4455	4537	4660
35°	4335	4402	4527
40°	4177	4265	4393
45°	4035	4113	4230
50°	3887	3930	4053
55°	3724	3731	3862
60°	3547	3531	3586
65°	3357	3283	3329
70°	3145	2984	2996
75°	2847	2620	2543
80°	2519	2202	2043
85°	2036	1536	1312



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.5	3.7
10°-20°	407.4	10.5
20°-30°	605.6	15.6
30°-40°	706.9	18.2
40°-50°	701.7	18.1
50°-60°	602.1	15.5
60°-70°	432.2	11.1
70°-80°	229.0	5.9
80°-90°	53.6	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°	1156.5	29.8
0°-40°	1863.4	48.0
0°-60°	3167.2	81.6
0°-90°	3882.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3882.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1518	1518	1518	1518	1518	
5°	1505	1508	1511	1516	1517	143
15°	1430	1435	1445	1456	1461	403
25°	1296	1300	1313	1333	1340	596
35°	1109	1112	1126	1151	1158	693
45°	891	895	908	924	934	688
55°	667	663	668	683	692	597
65°	443	432	433	437	439	440
75°	230	219	212	209	206	245
85°	55	48	42	36	36	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1518.5	1518.5	1518.5	1518.5	1518.5
2.5°	1512.4	1513.6	1517.3	1521.0	1522.2
5°	1505.0	1507.5	1511.1	1516.1	1517.3
7.5°	1493.9	1496.4	1501.3	1506.2	1508.7
10°	1476.7	1480.4	1485.3	1493.9	1496.4
12.5°	1457.0	1459.5	1466.8	1476.7	1481.6
15°	1429.9	1434.9	1444.7	1455.8	1460.7
17.5°	1402.9	1406.6	1418.9	1429.9	1433.6
20°	1368.4	1375.8	1388.1	1401.6	1409.0
22.5°	1331.5	1337.6	1352.4	1368.4	1375.8
25°	1295.8	1299.5	1313.0	1332.7	1340.1
27.5°	1252.7	1256.4	1271.2	1290.9	1300.7
30°	1204.7	1210.9	1226.9	1249.0	1260.1
32.5°	1159.2	1164.1	1180.1	1199.8	1210.9
35°	1108.8	1112.4	1126.0	1150.6	1158.0
37.5°	1055.8	1059.5	1078.0	1096.4	1105.1
40°	999.2	1004.2	1020.1	1038.6	1050.9
42.5°	947.5	950.0	963.5	984.5	995.5
45°	890.9	894.6	908.2	924.2	934.0
47.5°	836.8	835.6	849.1	867.6	874.9
50°	780.2	777.7	788.8	807.3	813.4
52.5°	723.6	719.9	732.2	745.7	750.7
55°	667.0	663.3	668.2	683.0	691.6
57.5°	611.6	605.4	611.6	619.0	626.4
60°	553.8	543.9	551.3	559.9	559.9
62.5°	500.8	489.8	493.5	499.6	503.3
65°	443.0	431.9	433.2	436.9	439.3
67.5°	388.9	377.8	375.3	376.6	377.8
70°	335.9	323.6	318.7	316.3	320.0
72.5°	281.8	269.5	267.0	262.1	263.3
75°	230.1	219.0	211.7	209.2	205.5
77.5°	180.9	171.1	164.9	157.5	156.3
80°	136.6	124.3	119.4	114.4	110.8
82.5°	96.0	84.9	76.3	71.4	67.7
85°	55.4	48.0	41.8	35.7	35.7
87.5°	22.2	17.2	14.8	13.5	12.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)