

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: P192405

Luminaire Tested: **4WSL-LD2-40-UNV-L830-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P192405
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P28104)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4WSL-LD2-40-UNV-L830-CD1-U
Description: 4FT Linear Wavestream System, L830
Light Source: (238) 3000K CCT, 80 CRI LEDS
EL236N0119D830
Ballast/Driver: OSRAM
OT50W

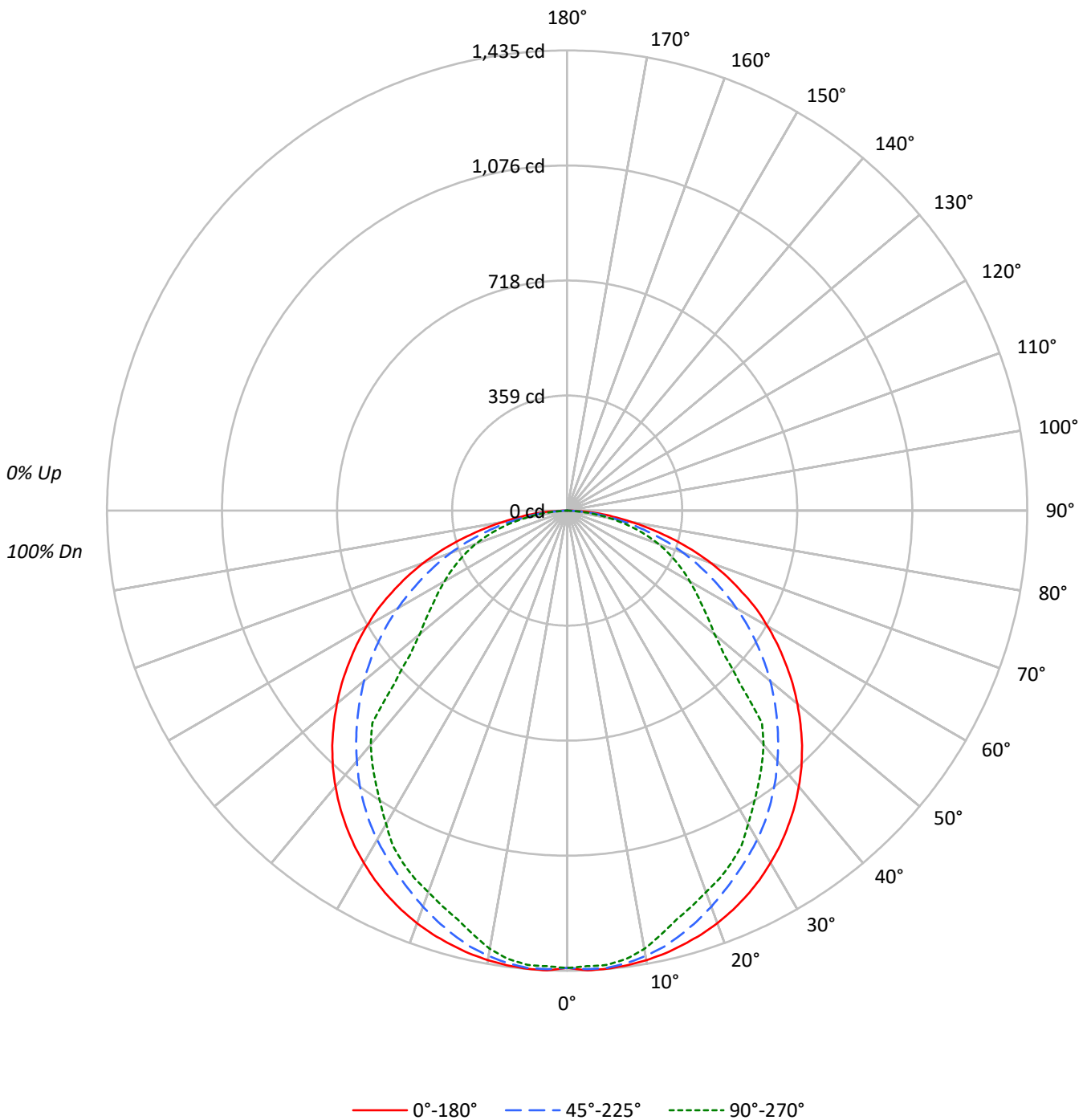
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3973.0 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.18 / 1.35
Luminous Opening: Rectangular (W 0.5' x L: 3.8' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
Input Voltage (V): NR
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	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	79	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38
7	65	51	43	36	63	51	42	36	49	42	36	48	41	36	46	40	35	33
8	60	47	38	33	59	46	38	32	45	37	32	44	37	32	42	36	32	30
9	57	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8079	8079	8079
5°	8155	8140	8088
10°	8189	8113	7985
15°	8218	8033	7740
20°	8257	7924	7631
25°	8282	7822	7575
30°	8297	7756	7386
35°	8308	7663	7191
40°	8311	7543	7047
45°	8298	7413	6097
50°	8260	7286	5283
55°	8218	7114	5063
60°	8176	6910	5004
65°	8070	6660	5004
70°	7903	6400	5007
75°	7394	5897	4861
80°	6603	5103	4333
85°	6065	3933	3159



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.5	3.4
10°-20°	384.5	9.7
20°-30°	579.6	14.6
30°-40°	695.9	17.5
40°-50°	708.7	17.8
50°-60°	622.0	15.7
60°-70°	483.8	12.2
70°-80°	287.7	7.2
80°-90°	75.3	1.9
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°	1099.5	27.7
0°-40°	1795.4	45.2
0°-60°	3126.1	78.7
0°-90°	3973.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3973.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1426	1426	1426	1426	1426	
5°	1434	1421	1431	1426	1422	137
15°	1401	1381	1370	1335	1320	396
25°	1325	1295	1251	1218	1212	611
35°	1201	1163	1108	1056	1040	752
45°	1036	1002	925	854	761	799
55°	832	807	720	577	513	744
65°	602	578	497	392	373	596
75°	338	321	269	218	222	357
85°	93	83	60	49	49	102
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1426.1	1426.1	1426.1	1426.1	1426.1
2.5°	1435.3	1420.8	1431.4	1428.7	1422.2
5°	1434.0	1420.8	1431.4	1426.1	1422.2
7.5°	1430.1	1416.9	1423.5	1415.6	1410.3
10°	1423.5	1409.0	1410.3	1397.2	1388.0
12.5°	1414.3	1397.2	1393.2	1367.0	1353.8
15°	1401.1	1381.4	1369.6	1335.4	1319.6
17.5°	1386.7	1364.3	1343.3	1305.2	1293.4
20°	1369.6	1343.3	1314.4	1275.0	1265.8
22.5°	1348.6	1321.0	1282.8	1247.4	1242.1
25°	1324.9	1294.7	1251.3	1218.4	1211.9
27.5°	1298.6	1263.1	1218.4	1185.6	1177.7
30°	1268.4	1231.6	1185.6	1147.5	1129.1
32.5°	1236.8	1198.7	1148.8	1100.1	1083.1
35°	1201.3	1163.2	1108.0	1055.5	1039.7
37.5°	1164.5	1125.1	1066.0	1010.8	997.6
40°	1123.8	1085.7	1020.0	966.1	952.9
42.5°	1081.7	1044.9	974.0	920.1	899.0
45°	1035.7	1001.6	925.3	854.3	761.0
47.5°	987.1	955.6	876.7	771.5	663.8
50°	937.2	908.2	826.7	697.9	599.4
52.5°	885.9	859.6	775.5	633.5	554.7
55°	832.0	807.0	720.3	577.0	512.6
57.5°	778.1	753.1	667.7	525.8	477.1
60°	721.6	697.9	609.9	478.4	441.6
62.5°	666.4	640.1	553.4	435.1	408.8
65°	602.0	578.3	496.8	391.7	373.3
67.5°	541.5	516.6	441.6	349.6	339.1
70°	477.1	452.1	386.4	306.3	302.3
72.5°	408.8	389.1	328.6	264.2	261.6
75°	337.8	320.7	269.4	218.2	222.1
77.5°	268.1	257.6	212.9	174.8	177.4
80°	202.4	194.5	156.4	130.1	132.8
82.5°	144.6	138.0	106.5	86.7	86.7
85°	93.3	82.8	60.5	48.6	48.6
87.5°	36.8	30.2	18.4	5.3	2.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)