

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: P192433

Luminaire Tested: **4WSL-LD2-75-UNV-L830-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P192433
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-LD2-75-UNV-L830-CD1-U
Description: 4FT Linear Wavestream System, L830
Light Source: (238) 3000K CCT, 80 CRI LEDS
EL236N0119D830
Ballast/Driver: OSRAM
OT85W1202772A0DIML

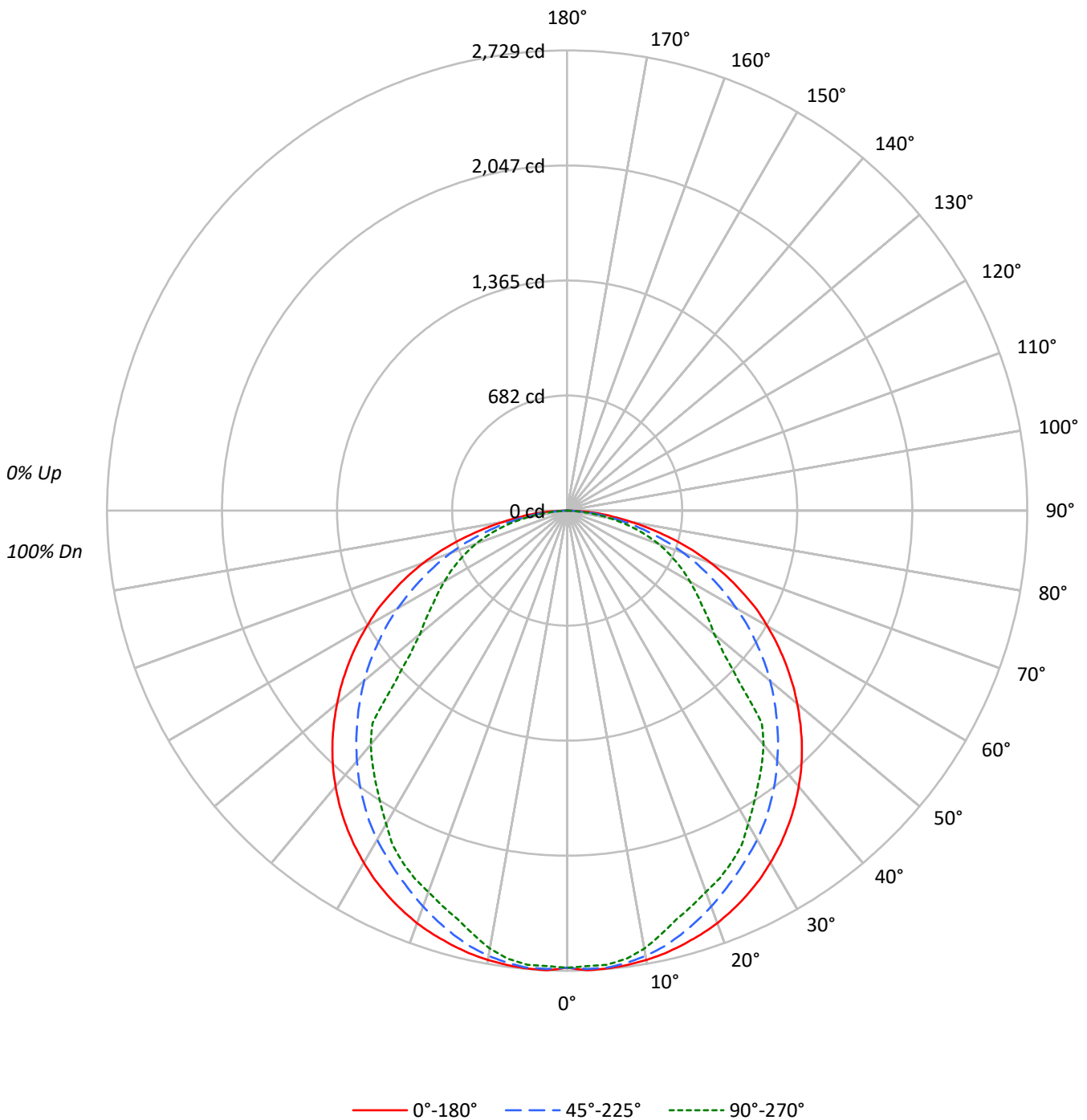
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7553.0 lumens
Efficiency: N/A
Efficacy: 102.2 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): 73.9
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°	15359	15359	15359
5°	15503	15475	15376
10°	15567	15424	15179
15°	15623	15271	14714
20°	15697	15065	14507
25°	15744	14870	14401
30°	15774	14744	14041
35°	15795	14568	13669
40°	15800	14340	13398
45°	15775	14094	11592
50°	15702	13852	10042
55°	15622	13525	9625
60°	15543	13137	9513
65°	15341	12661	9512
70°	15024	12168	9519
75°	14057	11211	9244
80°	12554	9703	8234
85°	11531	7469	6013



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.6	3.4
10°-20°	730.9	9.7
20°-30°	1101.8	14.6
30°-40°	1322.9	17.5
40°-50°	1347.3	17.8
50°-60°	1182.4	15.7
60°-70°	919.8	12.2
70°-80°	547.0	7.2
80°-90°	143.2	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°	2090.3	27.7
0°-40°	3413.2	45.2
0°-60°	5943.0	78.7
0°-90°	7553.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7553.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2711	2711	2711	2711	2711	
5°	2726	2701	2721	2711	2704	260
15°	2664	2626	2604	2539	2509	753
25°	2519	2461	2379	2316	2304	1161
35°	2284	2211	2106	2006	1976	1429
45°	1969	1904	1759	1624	1447	1518
55°	1582	1534	1369	1097	974	1414
65°	1144	1100	944	745	710	1134
75°	642	610	512	415	422	679
85°	177	157	115	92	92	194
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2711.1	2711.1	2711.1	2711.1	2711.1
2.5°	2728.6	2701.2	2721.1	2716.1	2703.7
5°	2726.1	2701.2	2721.1	2711.1	2703.7
7.5°	2718.6	2693.7	2706.1	2691.2	2681.2
10°	2706.1	2678.7	2681.2	2656.2	2638.7
12.5°	2688.7	2656.2	2648.7	2598.7	2573.7
15°	2663.7	2626.2	2603.7	2538.7	2508.7
17.5°	2636.2	2593.7	2553.7	2481.3	2458.8
20°	2603.7	2553.7	2498.8	2423.8	2406.3
22.5°	2563.7	2511.2	2438.8	2371.3	2361.3
25°	2518.7	2461.3	2378.8	2316.3	2303.9
27.5°	2468.8	2401.3	2316.3	2253.9	2238.9
30°	2411.3	2341.3	2253.9	2181.4	2146.4
32.5°	2351.3	2278.9	2183.9	2091.5	2059.0
35°	2283.9	2211.4	2106.4	2006.5	1976.5
37.5°	2213.9	2138.9	2026.5	1921.5	1896.6
40°	2136.4	2064.0	1939.0	1836.6	1811.6
42.5°	2056.5	1986.5	1851.6	1749.1	1709.1
45°	1969.0	1904.0	1759.1	1624.2	1446.8
47.5°	1876.6	1816.6	1666.7	1466.8	1261.9
50°	1781.6	1726.6	1571.7	1326.8	1139.4
52.5°	1684.2	1634.2	1474.3	1204.4	1054.5
55°	1581.7	1534.2	1369.3	1097.0	974.5
57.5°	1479.3	1431.8	1269.4	999.5	907.0
60°	1371.8	1326.8	1159.4	909.5	839.6
62.5°	1266.9	1216.9	1052.0	827.1	777.1
65°	1144.4	1099.5	944.5	744.6	709.6
67.5°	1029.5	982.0	839.6	664.7	644.7
70°	907.0	859.6	734.6	582.2	574.7
72.5°	777.1	739.6	624.7	502.2	497.3
75°	642.2	609.7	512.2	414.8	422.3
77.5°	509.7	489.8	404.8	332.3	337.3
80°	384.8	369.8	297.4	247.4	252.4
82.5°	274.9	262.4	202.4	164.9	164.9
85°	177.4	157.4	114.9	92.5	92.5
87.5°	70.0	57.5	35.0	10.0	5.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)