

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: P192435

Luminaire Tested: **4WSL-LD2-75-UNV-L840-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P192435
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-L840-CD1-U
Description: 4FT Linear Wavestream System, L840
Light Source: (238) 4000K CCT, 80 CRI LEDS
EL236N0119D840
Ballast/Driver: OSRAM
OT85W1202772A0DIML

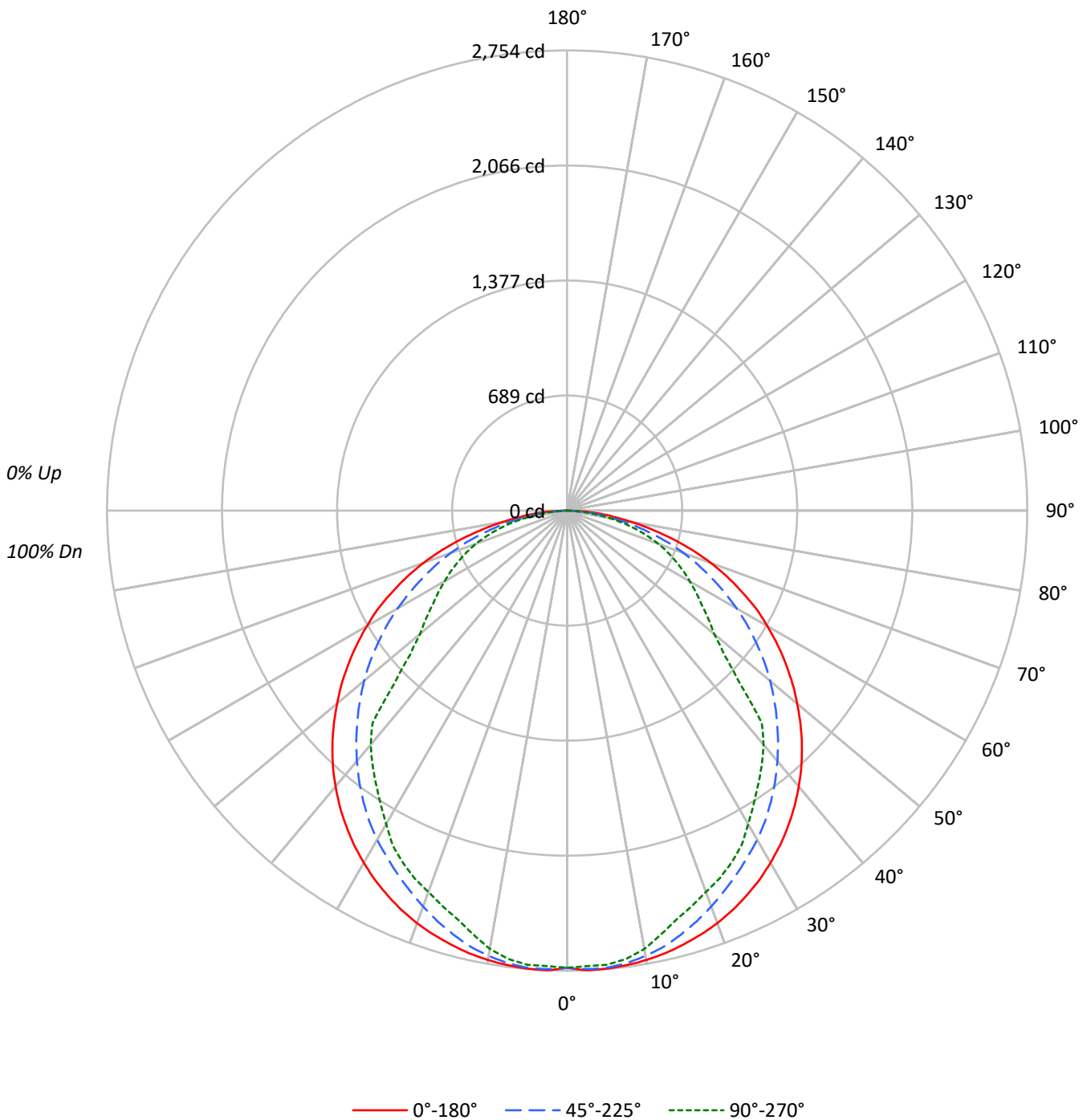
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7623.0 lumens
Efficiency: N/A
Efficacy: 103.2 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°	15502	15502	15502
5°	15647	15618	15518
10°	15712	15567	15320
15°	15768	15412	14850
20°	15842	15204	14642
25°	15890	15008	14535
30°	15920	14881	14171
35°	15941	14703	13796
40°	15946	14473	13522
45°	15922	14224	11699
50°	15848	13981	10136
55°	15768	13650	9714
60°	15687	13259	9601
65°	15483	12779	9601
70°	15164	12281	9607
75°	14186	11316	9329
80°	12671	9791	8310
85°	11642	7540	6065



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.9	3.4
10°-20°	737.7	9.7
20°-30°	1112.0	14.6
30°-40°	1335.2	17.5
40°-50°	1359.8	17.8
50°-60°	1193.4	15.7
60°-70°	928.3	12.2
70°-80°	552.1	7.2
80°-90°	144.5	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°	2109.7	27.7
0°-40°	3444.8	45.2
0°-60°	5998.1	78.7
0°-90°	7623.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7623.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2736	2736	2736	2736	2736	
5°	2751	2726	2746	2736	2729	262
15°	2688	2650	2628	2562	2532	760
25°	2542	2484	2401	2338	2325	1172
35°	2305	2232	2126	2025	1995	1443
45°	1987	1922	1775	1639	1460	1532
55°	1596	1548	1382	1107	984	1428
65°	1155	1110	953	752	716	1144
75°	648	615	517	419	426	685
85°	179	159	116	93	93	196
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2736.3	2736.3	2736.3	2736.3	2736.3
2.5°	2753.9	2726.2	2746.4	2741.3	2728.7
5°	2751.4	2726.2	2746.4	2736.3	2728.7
7.5°	2743.8	2718.6	2731.2	2716.1	2706.0
10°	2731.2	2703.5	2706.0	2680.8	2663.1
12.5°	2713.6	2680.8	2673.2	2622.8	2597.6
15°	2688.4	2650.5	2627.8	2562.3	2532.0
17.5°	2660.6	2617.7	2577.4	2504.3	2481.6
20°	2627.8	2577.4	2521.9	2446.3	2428.6
22.5°	2587.5	2534.5	2461.4	2393.3	2383.2
25°	2542.1	2484.1	2400.9	2337.8	2325.2
27.5°	2491.6	2423.6	2337.8	2274.8	2259.6
30°	2433.6	2363.0	2274.8	2201.6	2166.3
32.5°	2373.1	2300.0	2204.2	2110.8	2078.1
35°	2305.0	2231.9	2126.0	2025.1	1994.8
37.5°	2234.4	2158.8	2045.3	1939.3	1914.1
40°	2156.2	2083.1	1957.0	1853.6	1828.4
42.5°	2075.5	2004.9	1868.7	1765.3	1725.0
45°	1987.3	1921.7	1775.4	1639.2	1460.2
47.5°	1894.0	1833.4	1682.1	1480.4	1273.6
50°	1798.1	1742.6	1586.3	1339.1	1150.0
52.5°	1699.8	1649.3	1487.9	1215.6	1064.2
55°	1596.4	1548.5	1382.0	1107.1	983.5
57.5°	1493.0	1445.1	1281.1	1008.8	915.5
60°	1384.5	1339.1	1170.2	918.0	847.4
62.5°	1278.6	1228.2	1061.7	834.8	784.3
65°	1155.0	1109.6	953.3	751.5	716.2
67.5°	1039.0	991.1	847.4	670.8	650.7
70°	915.5	867.5	741.4	587.6	580.0
72.5°	784.3	746.5	630.5	506.9	501.9
75°	648.1	615.3	517.0	418.6	426.2
77.5°	514.5	494.3	408.5	335.4	340.5
80°	388.4	373.2	300.1	249.7	254.7
82.5°	277.4	264.8	204.3	166.4	166.4
85°	179.1	158.9	116.0	93.3	93.3
87.5°	70.6	58.0	35.3	10.1	5.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)