

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: P197397

Luminaire Tested: **8WSL-LD2-150-UNV-L830-CD2-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P197397
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: 8WSL-LD2-150-UNV-L830-CD2-U
Description: 8FT. Linear Wavestream System, L830
Light Source: (476) 3000K CCT, 80 CRI LEDS
EL236N0119D830
Ballast/Driver: OSRAM
OT85W1202772A0DIML

Summary

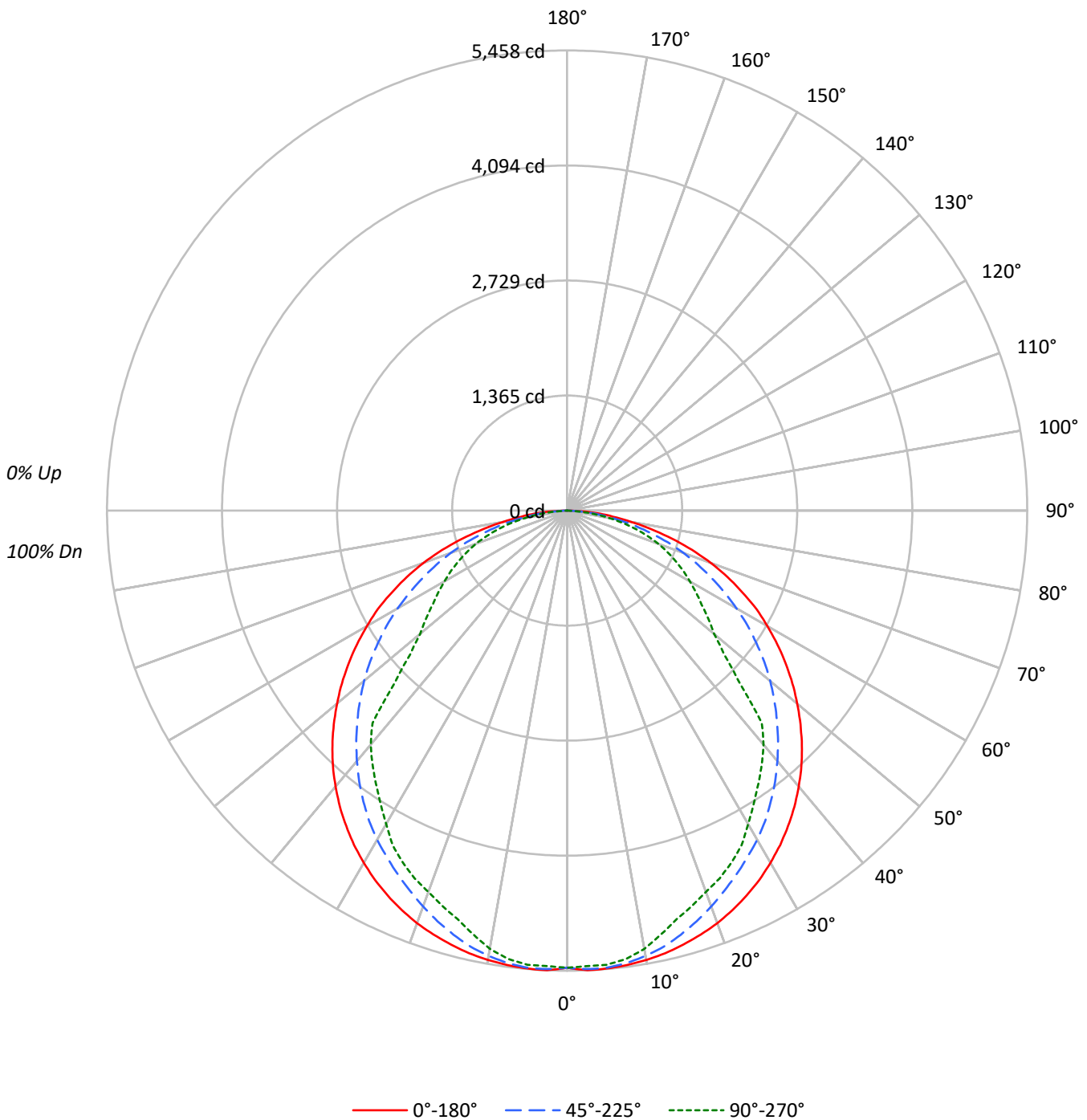
Lumens per Lamp: N/A
Luminaire Lumens: 15107.0 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.18 / 1.35
Luminous Opening: Rectangular (W 0.5' x L: 7.6' x H: 0')
CIE Type: Direct

Input Watts (W): 148.7
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°	15360	15360	15360
5°	15504	15476	15376
10°	15568	15425	15180
15°	15624	15272	14715
20°	15698	15065	14508
25°	15745	14871	14402
30°	15775	14745	14042
35°	15796	14569	13670
40°	15801	14341	13398
45°	15776	14095	11592
50°	15703	13853	10043
55°	15623	13526	9626
60°	15544	13138	9514
65°	15342	12662	9514
70°	15025	12170	9520
75°	14057	11214	9244
80°	12556	9701	8234
85°	11531	7472	6009



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	515.1	3.4
10°-20°	1461.9	9.7
20°-30°	2203.8	14.6
30°-40°	2646.0	17.5
40°-50°	2694.9	17.8
50°-60°	2365.0	15.7
60°-70°	1839.7	12.2
70°-80°	1094.2	7.2
80°-90°	286.4	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°	4180.9	27.7
0°-40°	6826.9	45.2
0°-60°	11886.8	78.7
0°-90°	15107.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15107.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5423	5423	5423	5423	5423	
5°	5453	5403	5443	5423	5408	519
15°	5328	5253	5208	5078	5018	1506
25°	5038	4923	4758	4633	4608	2323
35°	4568	4423	4213	4013	3953	2859
45°	3938	3808	3518	3249	2894	3037
55°	3164	3069	2739	2194	1949	2829
65°	2289	2199	1889	1489	1419	2267
75°	1284	1220	1025	830	845	1358
85°	355	315	230	185	185	389
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5422.6	5422.6	5422.6	5422.6	5422.6
2.5°	5457.6	5402.7	5442.6	5432.6	5407.7
5°	5452.6	5402.7	5442.6	5422.6	5407.7
7.5°	5437.6	5387.7	5412.6	5382.7	5362.7
10°	5412.6	5357.7	5362.7	5312.7	5277.7
12.5°	5377.7	5312.7	5297.7	5197.7	5147.8
15°	5327.7	5252.7	5207.7	5077.8	5017.8
17.5°	5272.7	5187.7	5107.8	4962.8	4917.9
20°	5207.7	5107.8	4997.8	4847.9	4812.9
22.5°	5127.8	5022.8	4877.9	4742.9	4722.9
25°	5037.8	4922.9	4757.9	4633.0	4608.0
27.5°	4937.9	4802.9	4633.0	4508.0	4478.1
30°	4822.9	4683.0	4508.0	4363.1	4293.1
32.5°	4703.0	4558.0	4368.1	4183.2	4118.2
35°	4568.0	4423.1	4213.2	4013.3	3953.3
37.5°	4428.1	4278.1	4053.2	3843.3	3793.4
40°	4273.1	4128.2	3878.3	3673.4	3623.4
42.5°	4113.2	3973.3	3703.4	3498.5	3418.5
45°	3938.3	3808.3	3518.5	3248.6	2893.7
47.5°	3753.4	3633.4	3333.6	2933.7	2523.9
50°	3563.5	3453.5	3143.6	2653.8	2279.0
52.5°	3368.5	3268.6	2948.7	2409.0	2109.1
55°	3163.6	3068.7	2738.8	2194.0	1949.2
57.5°	2958.7	2863.8	2538.9	1999.1	1814.2
60°	2743.8	2653.8	2319.0	1819.2	1679.3
62.5°	2533.9	2433.9	2104.1	1654.3	1554.3
65°	2289.0	2199.0	1889.2	1489.4	1419.4
67.5°	2059.1	1964.1	1679.3	1329.4	1289.4
70°	1814.2	1719.3	1469.4	1164.5	1149.5
72.5°	1554.3	1479.4	1249.5	1004.6	994.6
75°	1284.4	1219.5	1024.6	829.6	844.6
77.5°	1019.6	979.6	809.6	664.7	674.7
80°	769.7	739.7	594.7	494.8	504.8
82.5°	549.8	524.8	404.8	329.9	329.9
85°	354.8	314.9	229.9	184.9	184.9
87.5°	139.9	115.0	70.0	20.0	10.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)