

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: P197389

Luminaire Tested: **8WSL-LD2-130-UNV-L830-CD2-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P197389
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-LD2-130-UNV-L830-CD2-U
Description: 8FT. Linear Wavestream System, L830
Light Source: (476) 3000K CCT, 80 CRI LEDS
EL236N0119D830
Ballast/Driver: OSRAM
OT85W1202772A0DIML

Summary

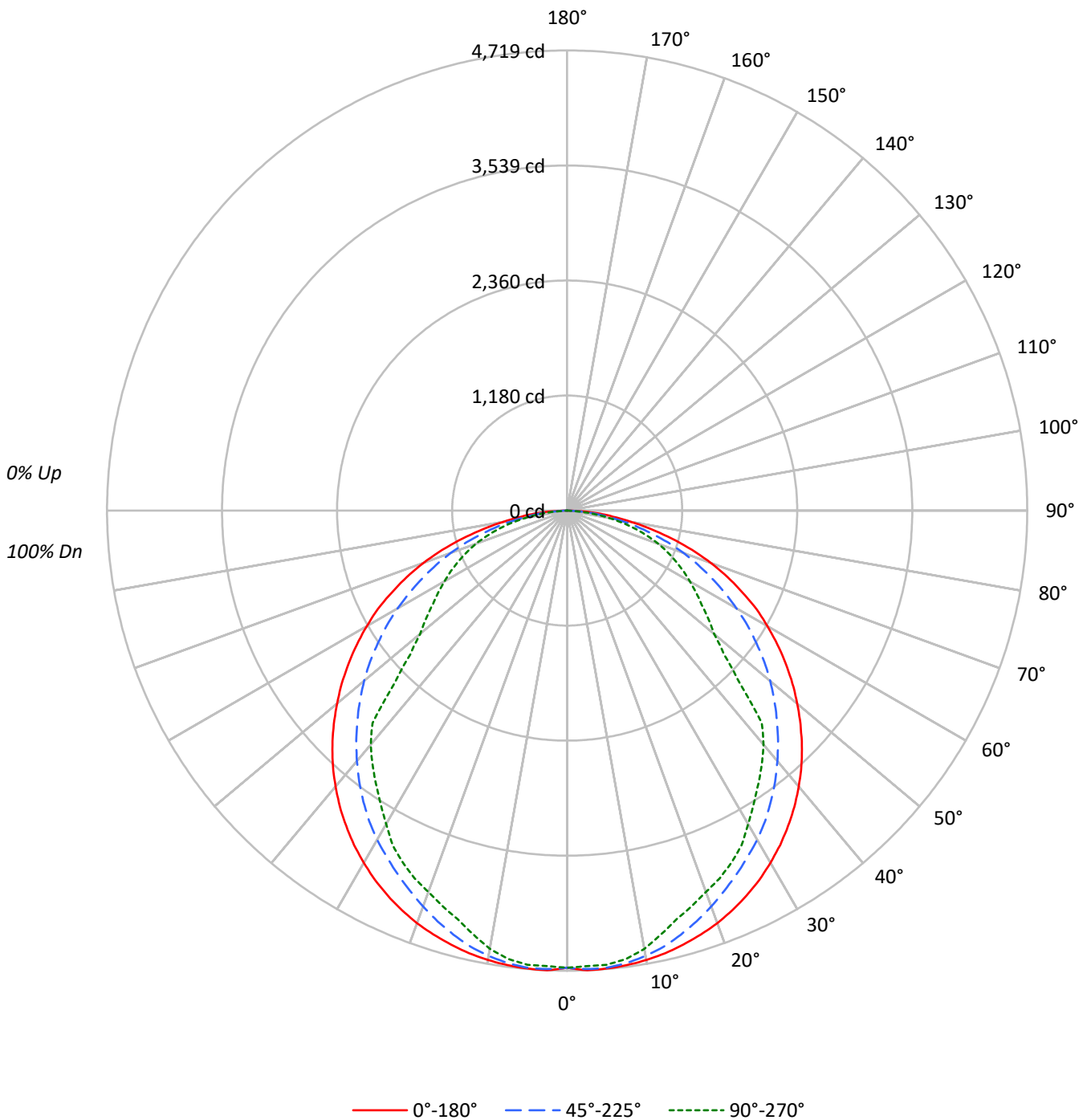
Lumens per Lamp: N/A
Luminaire Lumens: 13061.8 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.18 / 1.35
Luminous Opening: Rectangular (W 0.5' x L: 7.6' x H: 0')
CIE Type: Direct

Input Watts (W): 124.7
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°	13281	13281	13281
5°	13405	13381	13295
10°	13461	13337	13125
15°	13508	13204	12723
20°	13573	13026	12544
25°	13614	12857	12452
30°	13639	12749	12141
35°	13658	12597	11820
40°	13662	12400	11585
45°	13641	12186	10023
50°	13577	11978	8684
55°	13508	11694	8323
60°	13440	11359	8225
65°	13265	10948	8225
70°	12991	10521	8231
75°	12155	9696	7993
80°	10856	8388	7119
85°	9971	6461	5197



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	445.4	3.4
10°-20°	1264.0	9.7
20°-30°	1905.5	14.6
30°-40°	2287.8	17.5
40°-50°	2330.0	17.8
50°-60°	2044.9	15.7
60°-70°	1590.6	12.2
70°-80°	946.0	7.2
80°-90°	247.6	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°	3614.9	27.7
0°-40°	5902.7	45.2
0°-60°	10277.6	78.7
0°-90°	13061.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13061.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4688	4688	4688	4688	4688	
5°	4714	4671	4706	4688	4676	449
15°	4606	4542	4503	4390	4338	1302
25°	4356	4256	4114	4006	3984	2008
35°	3950	3824	3643	3470	3418	2472
45°	3405	3293	3042	2809	2502	2626
55°	2735	2653	2368	1897	1685	2446
65°	1979	1901	1633	1288	1227	1960
75°	1111	1054	886	717	730	1174
85°	307	272	199	160	160	336
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4688.5	4688.5	4688.5	4688.5	4688.5
2.5°	4718.8	4671.2	4705.8	4697.2	4675.6
5°	4714.5	4671.2	4705.8	4688.5	4675.6
7.5°	4701.5	4658.3	4679.9	4654.0	4636.7
10°	4679.9	4632.4	4636.7	4593.5	4563.2
12.5°	4649.6	4593.5	4580.5	4494.1	4450.9
15°	4606.4	4541.6	4502.7	4390.4	4338.5
17.5°	4558.9	4485.4	4416.3	4291.0	4252.1
20°	4502.7	4416.3	4321.2	4191.6	4161.3
22.5°	4433.6	4342.8	4217.5	4100.8	4083.6
25°	4355.8	4256.4	4113.8	4005.8	3984.2
27.5°	4269.4	4152.7	4005.8	3897.7	3871.8
30°	4170.0	4049.0	3897.7	3772.4	3711.9
32.5°	4066.3	3941.0	3776.8	3616.9	3560.7
35°	3949.6	3824.3	3642.8	3469.9	3418.1
37.5°	3828.6	3699.0	3504.5	3323.0	3279.8
40°	3694.6	3569.3	3353.3	3176.1	3132.9
42.5°	3556.4	3435.4	3202.0	3024.9	2955.7
45°	3405.1	3292.8	3042.1	2808.8	2502.0
47.5°	3245.2	3141.5	2882.3	2536.6	2182.2
50°	3081.0	2986.0	2718.1	2294.6	1970.5
52.5°	2912.5	2826.1	2549.5	2082.8	1823.6
55°	2735.3	2653.2	2368.0	1897.0	1685.3
57.5°	2558.2	2476.1	2195.2	1728.5	1568.6
60°	2372.4	2294.6	2005.0	1572.9	1451.9
62.5°	2190.9	2104.4	1819.2	1430.3	1343.9
65°	1979.1	1901.3	1633.4	1287.7	1227.2
67.5°	1780.3	1698.2	1451.9	1149.4	1114.9
70°	1568.6	1486.5	1270.4	1006.8	993.9
72.5°	1343.9	1279.1	1080.3	868.6	859.9
75°	1110.6	1054.4	885.9	717.3	730.3
77.5°	881.5	847.0	700.0	574.7	583.4
80°	665.5	639.5	514.2	427.8	436.4
82.5°	475.3	453.7	350.0	285.2	285.2
85°	306.8	272.2	198.8	159.9	159.9
87.5°	121.0	99.4	60.5	17.3	8.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)