

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: P192397

Luminaire Tested: **4WSL-LD2-30-UNV-L830-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P192397
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-LD2-30-UNV-L830-CD1-U
Description: 4FT Linear Wavestream System, L830
Light Source: (238) 3000K CCT, 80 CRI LEDS
EL236N0119D830
Ballast/Driver: OSRAM
OT30W

Summary

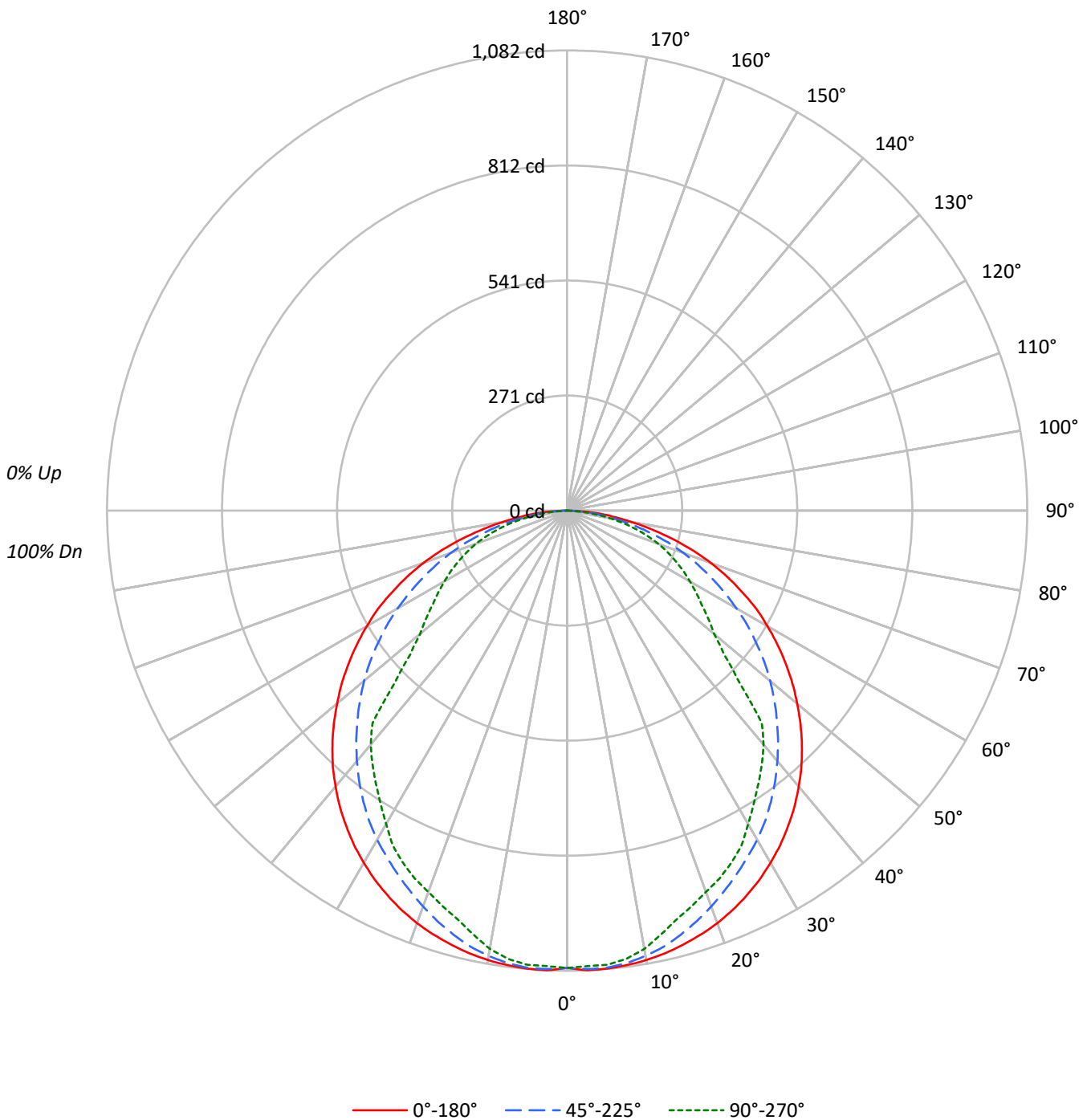
Lumens per Lamp: N/A
Luminaire Lumens: 2995.0 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.18 / 1.35
Luminous Opening: Rectangular (W 0.5' x L: 3.8' x H: 0')
CIE Type: Direct

Input Watts (W): 24.9
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°	6091	6091	6091
5°	6147	6136	6097
10°	6173	6116	6019
15°	6195	6055	5835
20°	6224	5973	5753
25°	6243	5896	5710
30°	6255	5846	5568
35°	6263	5777	5420
40°	6265	5686	5313
45°	6256	5588	4596
50°	6227	5493	3982
55°	6195	5363	3816
60°	6164	5209	3772
65°	6083	5020	3772
70°	5958	4825	3775
75°	5573	4446	3666
80°	4979	3846	3266
85°	4570	2964	2386



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.1	3.4
10°-20°	289.8	9.7
20°-30°	436.9	14.6
30°-40°	524.6	17.5
40°-50°	534.3	17.8
50°-60°	468.9	15.7
60°-70°	364.7	12.2
70°-80°	216.9	7.2
80°-90°	56.8	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°	828.9	27.7
0°-40°	1353.4	45.2
0°-60°	2356.6	78.7
0°-90°	2995.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2995.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1075	1075	1075	1075	1075	
5°	1081	1071	1079	1075	1072	103
15°	1056	1041	1032	1007	995	298
25°	999	976	943	918	914	461
35°	906	877	835	796	784	567
45°	781	755	698	644	574	602
55°	627	608	543	435	386	561
65°	454	436	374	295	281	450
75°	255	242	203	164	168	269
85°	70	62	46	37	37	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1075.1	1075.1	1075.1	1075.1	1075.1
2.5°	1082.0	1071.1	1079.0	1077.0	1072.1
5°	1081.0	1071.1	1079.0	1075.1	1072.1
7.5°	1078.0	1068.1	1073.1	1067.1	1063.2
10°	1073.1	1062.2	1063.2	1053.3	1046.3
12.5°	1066.1	1053.3	1050.3	1030.5	1020.6
15°	1056.2	1041.4	1032.4	1006.7	994.8
17.5°	1045.3	1028.5	1012.6	983.9	975.0
20°	1032.4	1012.6	990.8	961.1	954.2
22.5°	1016.6	995.8	967.1	940.3	936.3
25°	998.8	976.0	943.3	918.5	913.5
27.5°	978.9	952.2	918.5	893.7	887.8
30°	956.2	928.4	893.7	865.0	851.1
32.5°	932.4	903.6	866.0	829.3	816.4
35°	905.6	876.9	835.3	795.6	783.7
37.5°	877.9	848.2	803.6	762.0	752.0
40°	847.2	818.4	768.9	728.3	718.4
42.5°	815.5	787.7	734.2	693.6	677.7
45°	780.8	755.0	697.5	644.0	573.7
47.5°	744.1	720.3	660.9	581.6	500.4
50°	706.5	684.7	623.2	526.1	451.8
52.5°	667.8	648.0	584.6	477.6	418.1
55°	627.2	608.4	543.0	435.0	386.4
57.5°	586.6	567.7	503.3	396.3	359.7
60°	544.0	526.1	459.7	360.7	332.9
62.5°	502.4	482.5	417.1	328.0	308.1
65°	453.8	436.0	374.5	295.3	281.4
67.5°	408.2	389.4	332.9	263.6	255.6
70°	359.7	340.8	291.3	230.9	227.9
72.5°	308.1	293.3	247.7	199.2	197.2
75°	254.6	241.8	203.1	164.5	167.5
77.5°	202.1	194.2	160.5	131.8	133.8
80°	152.6	146.6	117.9	98.1	100.1
82.5°	109.0	104.0	80.3	65.4	65.4
85°	70.3	62.4	45.6	36.7	36.7
87.5°	27.7	22.8	13.9	4.0	2.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)