

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: P192401

Luminaire Tested: **4WSL-LD2-35-UNV-L830-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P192401
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-LD2-35-UNV-L830-CD1-U
Description: 4FT Linear Wavestream System, L830
Light Source: (238) 3000K CCT, 80 CRI LEDS
EL236N0119D830
Ballast/Driver: OSRAM
OT30W

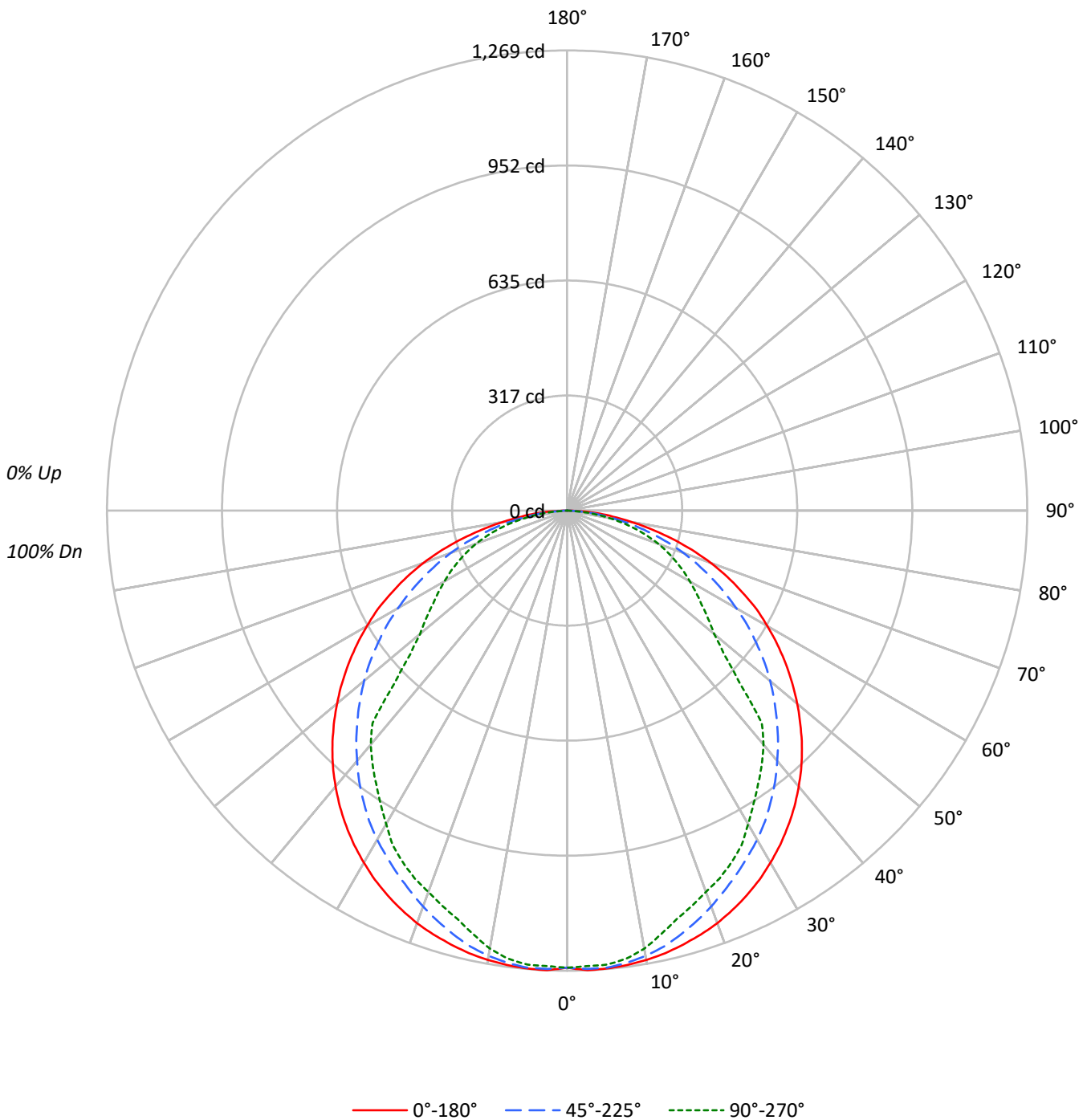
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3512.0 lumens
Efficiency: N/A
Efficacy: 114.8 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): 30.6
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

TEST NUMBER: P192401
CATALOG NUMBER: 4WSL-LD2-35-UNV-L830-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P192401

CATALOG NUMBER: 4WSL-LD2-35-UNV-L830-CD1-U

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°	7142	7142	7142
5°	7209	7196	7149
10°	7239	7172	7058
15°	7264	7101	6842
20°	7299	7005	6746
25°	7321	6914	6696
30°	7334	6856	6529
35°	7345	6774	6356
40°	7347	6668	6230
45°	7336	6554	5390
50°	7301	6441	4669
55°	7265	6289	4475
60°	7228	6108	4423
65°	7133	5887	4424
70°	6987	5658	4426
75°	6536	5214	4299
80°	5837	4512	3827
85°	5363	3471	2795



TEST NUMBER: P192401

CATALOG NUMBER: 4WSL-LD2-35-UNV-L830-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.8	3.4
10°-20°	339.9	9.7
20°-30°	512.3	14.6
30°-40°	615.1	17.5
40°-50°	626.5	17.8
50°-60°	549.8	15.7
60°-70°	427.7	12.2
70°-80°	254.4	7.2
80°-90°	66.6	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°	972.0	27.7
0°-40°	1587.1	45.2
0°-60°	2763.4	78.7
0°-90°	3512.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3512.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1261	1261	1261	1261	1261	
5°	1268	1256	1265	1261	1257	121
15°	1239	1221	1211	1180	1166	350
25°	1171	1144	1106	1077	1071	540
35°	1062	1028	980	933	919	665
45°	916	885	818	755	673	706
55°	736	713	637	510	453	658
65°	532	511	439	346	330	527
75°	299	284	238	193	196	316
85°	82	73	53	43	43	90
90°	0	0	0	0	0	



TEST NUMBER: P192401

CATALOG NUMBER: 4WSL-LD2-35-UNV-L830-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1260.6	1260.6	1260.6	1260.6	1260.6
2.5°	1268.8	1256.0	1265.3	1263.0	1257.1
5°	1267.6	1256.0	1265.3	1260.6	1257.1
7.5°	1264.1	1252.5	1258.3	1251.3	1246.7
10°	1258.3	1245.5	1246.7	1235.1	1226.9
12.5°	1250.2	1235.1	1231.6	1208.3	1196.7
15°	1238.6	1221.1	1210.7	1180.5	1166.5
17.5°	1225.8	1206.0	1187.4	1153.7	1143.3
20°	1210.7	1187.4	1161.9	1127.0	1118.9
22.5°	1192.1	1167.7	1134.0	1102.6	1098.0
25°	1171.2	1144.4	1106.1	1077.1	1071.2
27.5°	1147.9	1116.6	1077.1	1048.0	1041.0
30°	1121.2	1088.7	1048.0	1014.3	998.0
32.5°	1093.3	1059.6	1015.5	972.5	957.4
35°	1062.0	1028.3	979.5	933.0	919.0
37.5°	1029.4	994.6	942.3	893.5	881.9
40°	993.4	959.7	901.6	854.0	842.4
42.5°	956.2	923.7	860.9	813.3	794.7
45°	915.6	885.3	818.0	755.2	672.7
47.5°	872.6	844.7	775.0	682.0	586.7
50°	828.4	802.9	730.8	617.0	529.8
52.5°	783.1	759.9	685.5	560.0	490.3
55°	735.5	713.4	636.7	510.1	453.1
57.5°	687.8	665.8	590.2	464.7	421.8
60°	637.9	617.0	539.1	422.9	390.4
62.5°	589.1	565.8	489.1	384.6	361.3
65°	532.1	511.2	439.2	346.2	330.0
67.5°	478.7	456.6	390.4	309.1	299.8
70°	421.8	399.7	341.6	270.7	267.2
72.5°	361.3	343.9	290.5	233.5	231.2
75°	298.6	283.5	238.2	192.9	196.4
77.5°	237.0	227.7	188.2	154.5	156.9
80°	178.9	172.0	138.3	115.0	117.3
82.5°	127.8	122.0	94.1	76.7	76.7
85°	82.5	73.2	53.4	43.0	43.0
87.5°	32.5	26.7	16.3	4.6	2.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)