

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: P197401

Luminaire Tested: **8WSL-LD2-160-UNV-L830-CD2-U**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P197401  
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-LD2-160-UNV-L830-CD2-U  
Description: 8FT. Linear Wavestream System, L830  
Light Source: (476) 3000K CCT, 80 CRI LEDS  
EL236N0119D830  
Ballast/Driver: OSRAM  
OT85W1202772A0DIML

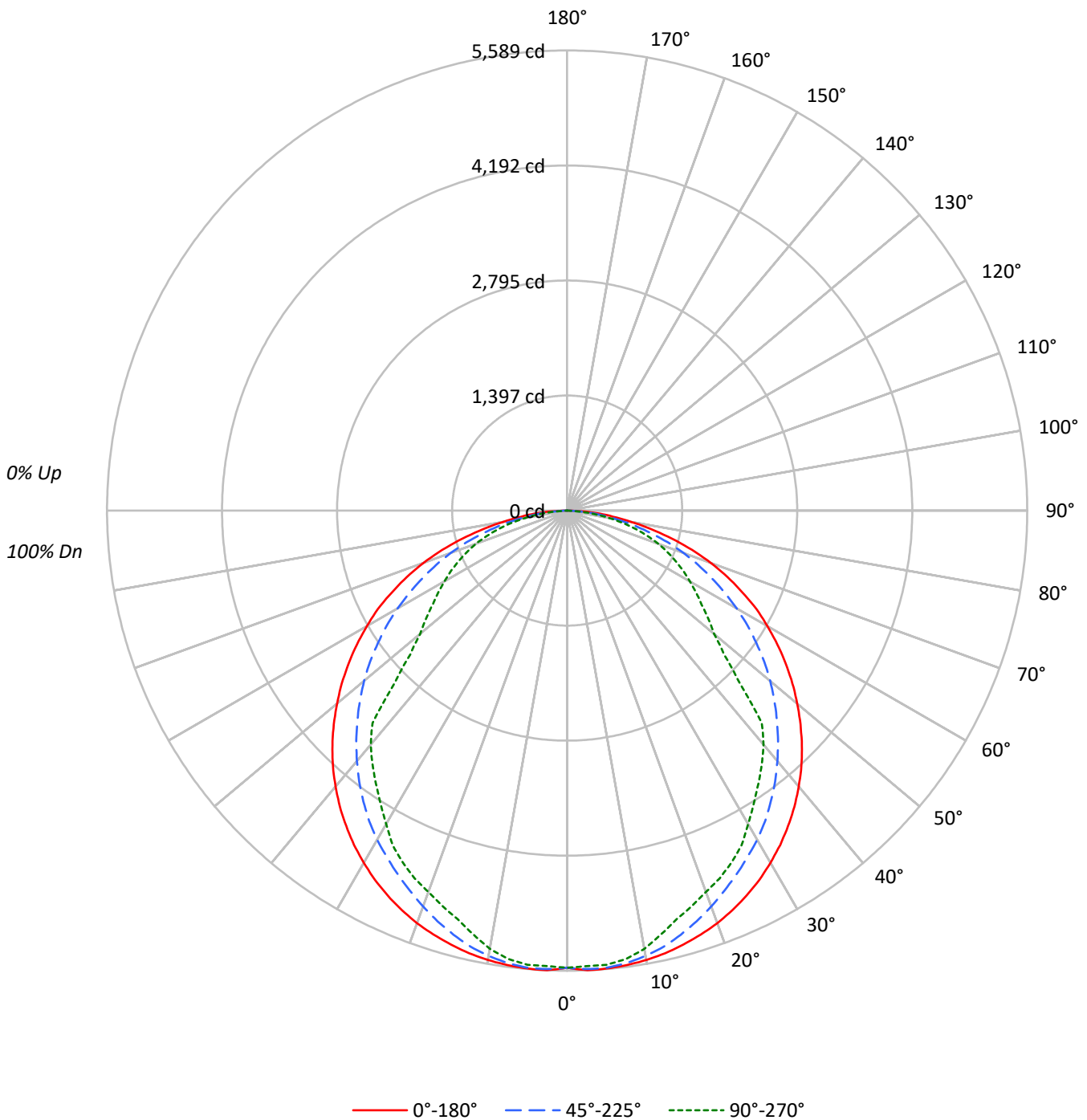
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15469.6 lumens  
Efficiency: N/A  
Efficacy: 101.2 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): 152.9  
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°	15729	15729	15729
5°	15876	15847	15745
10°	15942	15795	15545
15°	15999	15639	15068
20°	16075	15427	14856
25°	16124	15228	14748
30°	16154	15099	14379
35°	16175	14919	13999
40°	16180	14685	13720
45°	16155	14433	11870
50°	16080	14186	10284
55°	15999	13851	9857
60°	15918	13453	9742
65°	15711	12966	9742
70°	15386	12461	9749
75°	14395	11483	9466
80°	12856	9934	8432
85°	11811	7651	6156



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	527.5	3.4
10°-20°	1497.0	9.7
20°-30°	2256.7	14.6
30°-40°	2709.5	17.5
40°-50°	2759.6	17.8
50°-60°	2421.8	15.7
60°-70°	1883.8	12.2
70°-80°	1120.4	7.2
80°-90°	293.2	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°	4281.2	27.7
0°-40°	6990.8	45.2
0°-60°	12172.1	78.7
0°-90°	15469.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15469.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5553	5553	5553	5553	5553	
5°	5584	5532	5573	5553	5538	532
15°	5456	5379	5333	5200	5138	1542
25°	5159	5041	4872	4744	4719	2379
35°	4678	4529	4314	4110	4048	2928
45°	4033	3900	3603	3327	2963	3110
55°	3240	3142	2805	2247	1996	2897
65°	2344	2252	1934	1525	1454	2322
75°	1315	1249	1049	850	865	1391
85°	363	322	235	189	189	398
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5552.8	5552.8	5552.8	5552.8	5552.8
2.5°	5588.6	5532.4	5573.3	5563.1	5537.5
5°	5583.5	5532.4	5573.3	5552.8	5537.5
7.5°	5568.2	5517.0	5542.6	5511.9	5491.4
10°	5542.6	5486.3	5491.4	5440.2	5404.4
12.5°	5506.8	5440.2	5424.9	5322.5	5271.3
15°	5455.6	5378.8	5332.8	5199.7	5138.3
17.5°	5399.3	5312.3	5230.4	5082.0	5035.9
20°	5332.8	5230.4	5117.8	4964.3	4928.5
22.5°	5250.9	5143.4	4995.0	4856.8	4836.3
25°	5158.8	5041.0	4872.2	4744.2	4718.6
27.5°	5056.4	4918.2	4744.2	4616.3	4585.6
30°	4938.7	4795.4	4616.3	4467.8	4396.2
32.5°	4815.9	4667.4	4473.0	4283.6	4217.1
35°	4677.7	4529.3	4314.3	4109.6	4048.2
37.5°	4534.4	4380.8	4150.5	3935.6	3884.4
40°	4375.7	4227.3	3971.4	3761.6	3710.4
42.5°	4212.0	4068.7	3792.3	3582.5	3500.6
45°	4032.8	3899.8	3602.9	3326.6	2963.2
47.5°	3843.5	3720.6	3413.6	3004.2	2584.5
50°	3649.0	3536.4	3219.1	2717.6	2333.7
52.5°	3449.4	3347.0	3019.5	2466.8	2159.7
55°	3239.6	3142.3	2804.6	2246.7	1995.9
57.5°	3029.7	2932.5	2599.8	2047.1	1857.8
60°	2809.7	2717.6	2374.7	1862.9	1719.6
62.5°	2594.7	2492.4	2154.6	1694.0	1591.6
65°	2344.0	2251.8	1934.5	1525.1	1453.5
67.5°	2108.5	2011.3	1719.6	1361.3	1320.4
70°	1857.8	1760.5	1504.6	1192.4	1177.1
72.5°	1591.6	1514.9	1279.5	1028.7	1018.4
75°	1315.3	1248.7	1049.2	849.6	864.9
77.5°	1044.0	1003.1	829.1	680.7	690.9
80°	788.1	757.4	609.0	506.7	516.9
82.5°	563.0	537.4	414.5	337.8	337.8
85°	363.4	322.4	235.4	189.4	189.4
87.5°	143.3	117.7	71.6	20.5	10.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)