

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: P#

Luminaire Tested: **4SNLED-LD5-33SL-SLW-UNV-L935-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27403)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SNLED-LD5-33SL-SLW-UNV-L935-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
SQUARE FROSTED LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

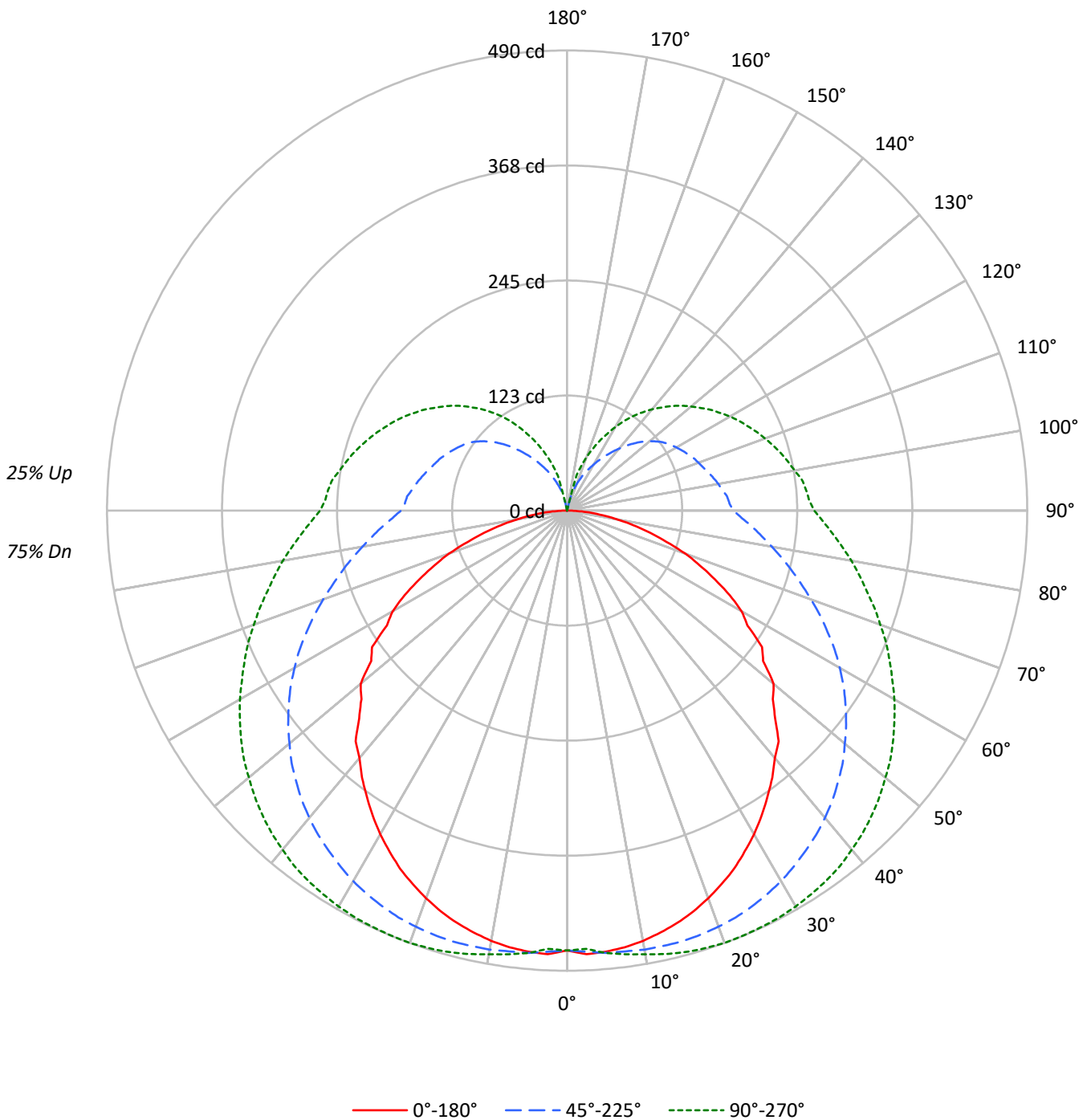
Lumens per Lamp: N/A  
Luminaire Lumens: 2697.0 lumens  
Efficiency: N/A  
Efficacy: 96.3 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Semi-Direct

Input Watts (W): 28  
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	113	113	113	113	107	107	107	107	97	97	97	88	88	88	79	79	79	75
1	100	94	89	84	95	89	84	80	80	76	73	72	69	66	64	62	60	56
2	90	80	72	66	85	76	69	63	68	63	58	61	57	53	55	51	48	44
3	81	69	60	53	76	66	58	51	59	53	47	53	48	43	47	43	39	36
4	74	61	51	44	69	58	49	43	52	45	39	47	41	36	42	37	33	30
5	67	54	44	37	63	51	43	36	46	39	33	42	35	31	37	32	28	25
6	62	48	39	32	58	46	37	31	41	34	29	37	31	27	34	28	24	22
7	57	43	34	28	54	41	33	27	37	30	25	34	28	23	30	25	21	19
8	53	39	31	25	50	37	29	24	34	27	22	31	25	21	28	23	19	17
9	49	36	27	22	47	34	26	21	31	24	20	28	23	18	26	21	17	15
10	46	33	25	20	44	31	24	19	29	22	18	26	21	16	24	19	15	13

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3784	3784	3784
5°	3814	3741	3713
10°	3796	3707	3692
15°	3770	3687	3700
20°	3734	3671	3707
25°	3698	3658	3713
30°	3648	3647	3733
35°	3591	3633	3757
40°	3537	3630	3782
45°	3470	3622	3812
50°	3480	3614	3843
55°	3419	3615	3889
60°	3293	3618	3941
65°	3111	3621	4015
70°	2909	3647	4128
75°	2553	3732	4294
80°	2154	3913	4572
85°	1599	4276	4975



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	45.0	1.7
10°-20°	133.4	4.9
20°-30°	212.1	7.9
30°-40°	272.2	10.1
40°-50°	307.3	11.4
50°-60°	313.6	11.6
60°-70°	290.5	10.8
70°-80°	246.0	9.1
80°-90°	196.3	7.3
90°-100°	166.7	6.2
100°-110°	148.5	5.5
110°-120°	126.5	4.7
120°-130°	100.5	3.7
130°-140°	71.3	2.6
140°-150°	42.6	1.6
150°-160°	19.8	0.7
160°-170°	4.7	0.2
170°-180°	0.0	0.0
0°-30°	390.5	14.5
0°-40°	662.7	24.6
0°-60°	1283.6	47.6
0°-90°	2016.4	74.8
90°-120°	441.8	16.4
90°-150°	656.1	24.3
90°-180°	681.0	25.3
0°-180°	2697.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	468	468	468	468	468	
5°	472	468	473	473	473	45
15°	454	458	475	484	487	128
25°	421	435	465	482	489	194
35°	372	399	442	470	481	233
45°	313	356	408	444	459	243
55°	254	296	362	406	424	223
65°	174	231	306	359	379	172
75°	91	162	248	309	330	97
85°	23	104	198	262	284	26
90°	1	85	177	241	263	2
95°	0	80	171	234	255	0
105°	0	74	156	215	236	0
115°	0	68	142	193	212	0
125°	0	59	126	170	187	0
135°	0	44	101	144	157	0
145°	0	28	71	108	123	0
155°	1	18	44	66	82	0
165°	1	10	20	27	39	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	468.3	468.3	468.3	468.3	468.3
2.5°	472.8	467.7	470.2	469.6	467.1
5°	471.5	467.7	472.8	472.8	472.8
7.5°	469.0	466.4	473.4	475.9	476.6
10°	465.2	465.2	474.7	478.5	479.7
12.5°	460.1	462.0	474.7	480.4	483.6
15°	454.4	458.2	474.7	483.6	486.7
17.5°	447.4	453.8	473.4	484.2	488.6
20°	439.2	448.7	471.5	484.2	489.9
22.5°	430.3	442.4	469.0	482.9	489.9
25°	420.8	434.8	465.2	481.7	489.3
27.5°	409.4	427.1	460.7	479.7	488.6
30°	398.0	418.3	455.7	477.2	486.7
32.5°	385.3	408.8	449.3	473.4	484.2
35°	372.0	399.3	442.4	469.6	481.0
37.5°	358.7	387.9	435.4	464.5	477.2
40°	344.1	376.4	427.1	458.2	471.5
42.5°	333.4	364.4	418.3	451.9	465.8
45°	313.1	355.5	408.1	443.6	458.8
47.5°	297.2	338.4	398.0	435.4	451.2
50°	287.1	324.5	386.0	425.9	442.4
52.5°	263.0	315.0	374.5	416.4	434.1
55°	253.5	296.0	361.9	406.2	424.0
57.5°	227.5	282.7	349.2	394.8	413.2
60°	214.8	264.3	335.3	383.4	402.4
62.5°	195.2	248.4	321.3	370.7	390.4
65°	173.6	231.3	306.1	358.7	379.0
67.5°	153.4	214.2	291.5	346.0	367.6
70°	133.7	196.5	276.3	333.4	354.9
72.5°	110.9	178.7	261.7	321.3	342.9
75°	91.3	161.6	247.8	308.6	330.2
77.5°	72.2	145.1	234.5	297.2	318.8
80°	54.5	129.3	221.2	285.2	307.4
82.5°	38.0	116.0	209.1	273.8	295.3
85°	23.4	103.9	197.7	261.7	283.9
87.5°	10.8	93.2	186.3	250.3	273.1
90°	1.3	84.9	176.8	240.8	263.0
92.5°	0.6	82.4	173.0	236.4	257.9
95°	0.0	79.9	171.1	233.9	255.4
97.5°	0.0	77.3	166.7	230.1	252.2
100°	0.0	76.1	163.5	224.3	245.9
102.5°	0.0	74.1	159.7	219.3	240.8
105°	0.0	73.5	155.9	214.8	235.8
107.5°	0.0	72.2	152.1	209.1	230.1
110°	0.0	71.0	148.9	204.1	224.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	69.7	145.8	199.0	218.6
115°	0.0	68.4	142.0	193.3	212.3
117.5°	0.0	66.5	138.2	187.6	206.6
120°	0.0	64.0	134.4	182.5	200.3
122.5°	0.0	61.5	130.6	176.2	193.3
125°	0.0	58.9	126.1	170.5	187.0
127.5°	0.0	55.1	121.0	164.1	179.4
130°	0.0	51.3	114.7	157.8	172.4
132.5°	0.6	47.5	108.4	150.8	165.4
135°	0.0	43.7	101.4	143.9	157.2
137.5°	0.0	40.6	93.8	136.3	148.9
140°	0.0	36.8	86.2	127.4	140.7
142.5°	0.0	32.3	78.6	117.9	131.8
145°	0.0	28.5	71.0	107.7	122.9
147.5°	0.6	25.4	64.0	97.0	113.4
150°	0.6	22.8	57.0	86.2	102.7
152.5°	0.6	20.3	50.1	76.1	91.9
155°	0.6	17.7	43.7	65.9	81.8
157.5°	0.6	15.2	36.8	55.8	71.0
160°	0.6	13.3	30.4	46.9	60.8
162.5°	0.6	11.4	24.7	36.8	50.1
165°	0.6	9.5	19.6	27.3	38.7
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)