

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: P284658

Luminaire Tested: **4SNLED-LD5-32SL-SLW-UNV-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P284658
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P#)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-32SL-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

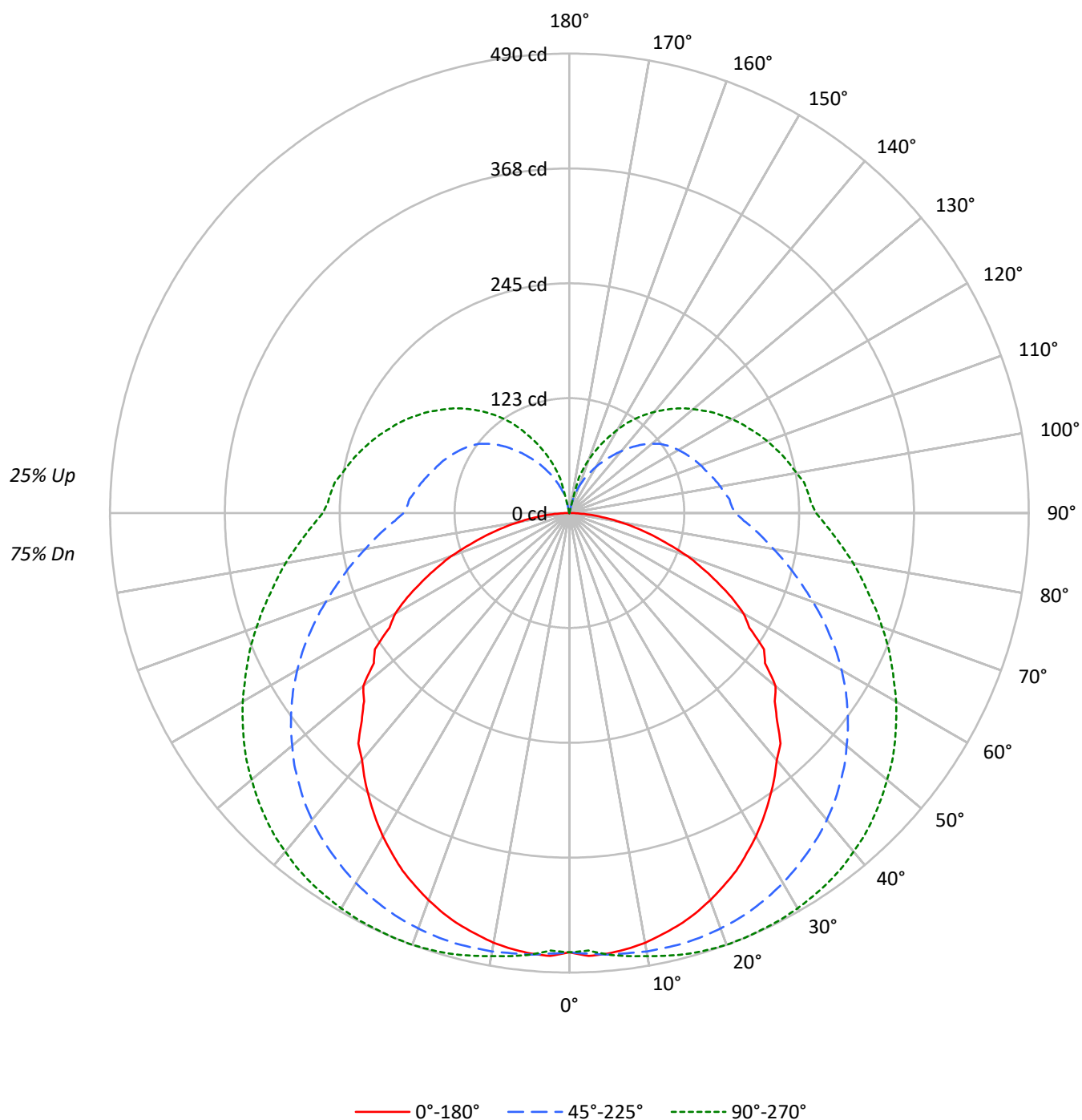
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	3785	3785	3785
5°	3814	3740	3713
10°	3796	3707	3692
15°	3770	3687	3700
20°	3734	3671	3707
25°	3699	3658	3713
30°	3648	3646	3733
35°	3591	3633	3758
40°	3537	3631	3782
45°	3470	3621	3812
50°	3480	3614	3843
55°	3418	3615	3889
60°	3293	3616	3941
65°	3111	3621	4015
70°	2909	3648	4128
75°	2553	3732	4294
80°	2158	3911	4571
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°	662.6	24.6
0°-60°	1283.5	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°	253	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	29	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°	468.4	468.4	468.4	468.4	468.4
2.5°	472.7	467.7	470.3	469.6	467.0
5°	471.5	467.7	472.7	472.7	472.7
7.5°	468.9	466.4	473.4	475.9	476.6
10°	465.2	465.2	474.7	478.5	479.7
12.5°	460.0	461.9	474.7	480.4	483.5
15°	454.4	458.2	474.7	483.5	486.7
17.5°	447.4	453.7	473.4	484.2	488.6
20°	439.2	448.8	471.5	484.2	490.0
22.5°	430.3	442.4	468.9	483.0	490.0
25°	420.9	434.7	465.2	481.6	489.3
27.5°	409.4	427.2	460.7	479.7	488.6
30°	398.0	418.3	455.6	477.1	486.7
32.5°	385.3	408.7	449.3	473.4	484.2
35°	372.0	399.3	442.4	469.6	481.1
37.5°	358.6	387.9	435.4	464.5	477.1
40°	344.1	376.4	427.2	458.2	471.5
42.5°	333.3	364.4	418.3	451.8	465.9
45°	313.1	355.5	408.0	443.6	458.8
47.5°	297.2	338.4	398.0	435.4	451.1
50°	287.1	324.4	386.0	425.8	442.4
52.5°	263.0	315.0	374.5	416.4	434.0
55°	253.4	296.0	361.9	406.2	424.0
57.5°	227.5	282.7	349.2	394.9	413.2
60°	214.8	264.2	335.2	383.4	402.4
62.5°	195.1	248.5	321.3	370.8	390.4
65°	173.6	231.4	306.1	358.6	379.0
67.5°	153.4	214.3	291.6	346.0	367.5
70°	133.7	196.5	276.4	333.3	354.9
72.5°	110.8	178.7	261.7	321.3	342.9
75°	91.3	161.6	247.8	308.7	330.2
77.5°	72.2	145.2	234.5	297.2	318.8
80°	54.6	129.3	221.1	285.3	307.3
82.5°	38.0	116.0	209.2	273.8	295.3
85°	23.4	104.0	197.7	261.7	283.9
87.5°	10.8	93.2	186.2	250.4	273.1
90°	1.2	85.0	176.8	240.8	263.0
92.5°	0.7	82.4	173.1	236.3	257.9
95°	0.0	79.9	171.2	233.8	255.3
97.5°	0.0	77.3	166.7	230.0	252.3
100°	0.0	76.1	163.5	224.4	245.9
102.5°	0.0	74.2	159.7	219.2	240.8
105°	0.0	73.5	156.0	214.8	235.8
107.5°	0.0	72.2	152.0	209.2	230.0
110°	0.0	71.0	149.0	204.0	224.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	69.8	145.7	199.1	218.6
115°	0.0	68.4	141.9	193.3	212.2
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	61.4	130.5	176.1	193.3
125°	0.0	59.0	126.0	170.5	186.9
127.5°	0.0	55.1	121.1	164.2	179.4
130°	0.0	51.3	114.8	157.8	172.4
132.5°	0.7	47.5	108.4	150.8	165.4
135°	0.0	43.8	101.4	143.8	157.2
137.5°	0.0	40.5	93.7	136.3	149.0
140°	0.0	36.8	86.2	127.4	140.7
142.5°	0.0	32.3	78.7	117.8	131.9
145°	0.0	28.6	71.0	107.7	123.0
147.5°	0.7	25.3	64.0	97.0	113.4
150°	0.7	22.7	57.1	86.2	102.6
152.5°	0.7	20.4	50.1	76.1	91.8
155°	0.7	17.8	43.8	65.8	81.7
157.5°	0.7	15.2	36.8	55.8	71.0
160°	0.7	13.3	30.4	46.9	60.9
162.5°	0.7	11.5	24.8	36.8	50.1
165°	0.7	9.6	19.7	27.2	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)