

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: P284539

Luminaire Tested: **4SNLED-LD5-25SL-SLW-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P284539
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-LD5-25SL-SLW-UNV-L840-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2561.0 lumens
Efficiency: N/A
Efficacy: 122.0 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

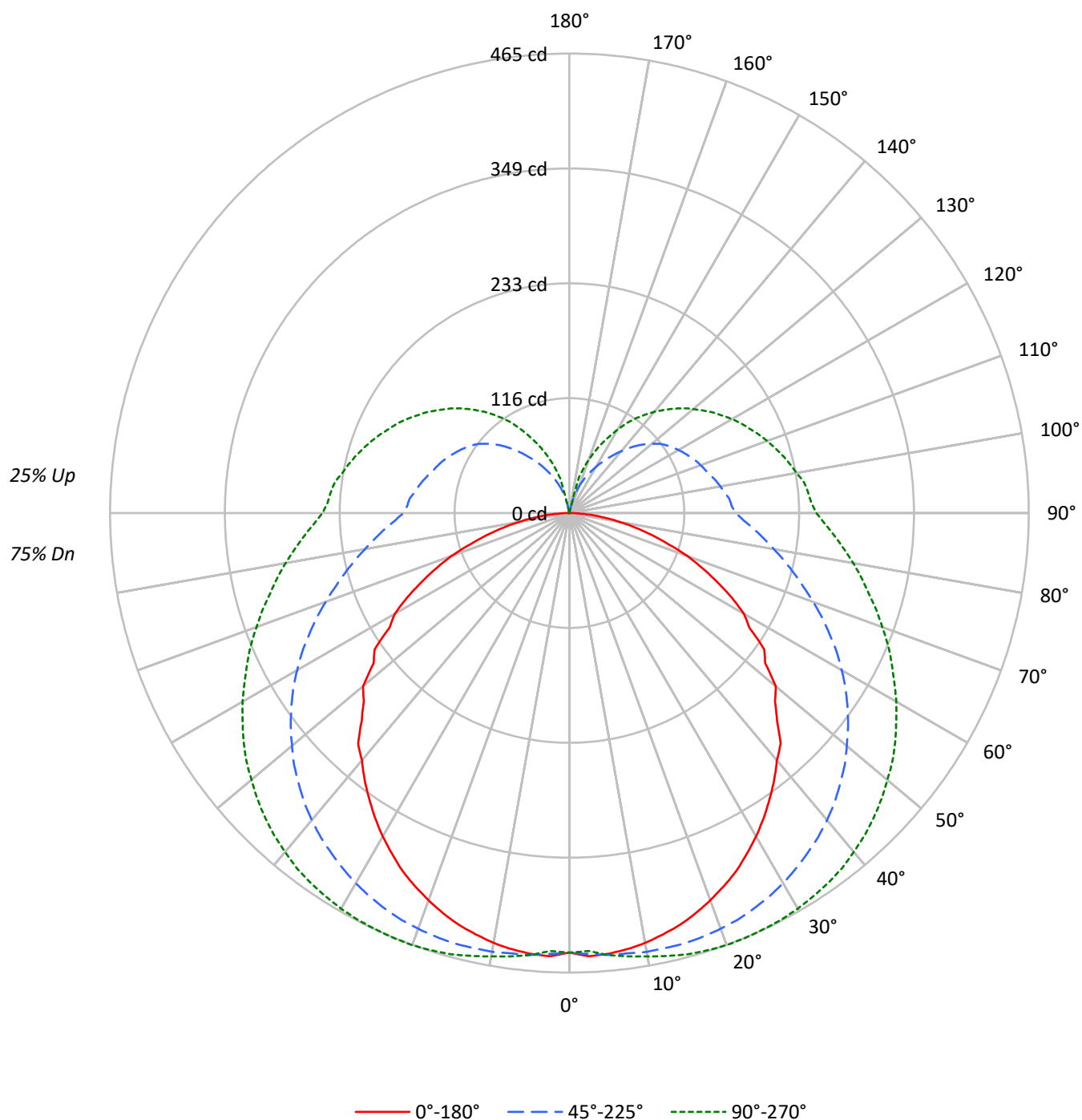
Input Watts (W): 21
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
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°	3594	3594	3594
5°	3622	3552	3526
10°	3605	3521	3506
15°	3580	3502	3513
20°	3546	3485	3520
25°	3513	3473	3525
30°	3464	3462	3545
35°	3410	3450	3568
40°	3358	3448	3592
45°	3295	3440	3620
50°	3305	3432	3649
55°	3246	3432	3693
60°	3128	3434	3742
65°	2953	3438	3813
70°	2763	3464	3920
75°	2424	3544	4078
80°	2048	3715	4340
85°	1517	4060	4725



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.7	1.7
10°-20°	126.7	4.9
20°-30°	201.4	7.9
30°-40°	258.4	10.1
40°-50°	291.8	11.4
50°-60°	297.8	11.6
60°-70°	275.9	10.8
70°-80°	233.6	9.1
80°-90°	186.4	7.3
90°-100°	158.3	6.2
100°-110°	141.0	5.5
110°-120°	120.1	4.7
120°-130°	95.4	3.7
130°-140°	67.7	2.6
140°-150°	40.4	1.6
150°-160°	18.8	0.7
160°-170°	4.5	0.2
170°-180°	0.0	0.0
0°-30°	370.8	14.5
0°-40°	629.2	24.6
0°-60°	1218.8	47.6
0°-90°	1914.7	74.8
90°-120°	419.5	16.4
90°-150°	623.0	24.3
90°-180°	646.0	25.2
0°-180°	2561.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	445	445	445	445	445	
5°	448	444	449	449	449	43
15°	432	435	451	459	462	122
25°	400	413	442	457	465	184
35°	353	379	420	446	457	221
45°	297	338	388	421	436	231
55°	241	281	344	386	403	211
65°	165	220	291	340	360	164
75°	87	154	235	293	314	92
85°	22	99	188	248	270	24
90°	1	81	168	229	250	2
95°	0	76	163	222	242	0
105°	0	70	148	204	224	0
115°	0	65	135	184	202	0
125°	0	56	120	162	178	0
135°	0	42	96	137	149	0
145°	0	27	67	102	117	0
155°	1	17	42	62	78	0
165°	1	9	19	26	37	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°	444.8	444.8	444.8	444.8	444.8
2.5°	448.9	444.1	446.6	445.9	443.5
5°	447.7	444.1	448.9	448.9	448.9
7.5°	445.3	442.8	449.5	451.9	452.6
10°	441.7	441.7	450.8	454.4	455.5
12.5°	436.8	438.6	450.8	456.2	459.1
15°	431.5	435.1	450.8	459.1	462.2
17.5°	424.8	430.8	449.5	459.7	464.0
20°	417.0	426.1	447.7	459.7	465.3
22.5°	408.6	420.1	445.3	458.6	465.3
25°	399.7	412.8	441.7	457.3	464.6
27.5°	388.8	405.7	437.5	455.5	464.0
30°	377.9	397.2	432.6	453.1	462.2
32.5°	365.9	388.1	426.6	449.5	459.7
35°	353.2	379.2	420.1	445.9	456.8
37.5°	340.5	368.3	413.5	441.1	453.1
40°	326.7	357.4	405.7	435.1	447.7
42.5°	316.5	346.1	397.2	429.0	442.4
45°	297.3	337.6	387.5	421.3	435.7
47.5°	282.2	321.4	377.9	413.5	428.4
50°	272.7	308.1	366.5	404.4	420.1
52.5°	249.8	299.1	355.6	395.4	412.2
55°	240.7	281.1	343.6	385.7	402.6
57.5°	216.0	268.4	331.6	375.0	392.3
60°	204.0	250.9	318.3	364.1	382.1
62.5°	185.3	236.0	305.1	352.1	370.7
65°	164.8	219.7	290.7	340.5	359.9
67.5°	145.7	203.5	276.9	328.5	349.0
70°	127.0	186.6	262.4	316.5	337.0
72.5°	105.2	169.7	248.5	305.1	325.6
75°	86.7	153.5	235.3	293.1	313.6
77.5°	68.5	137.9	222.6	282.2	302.7
80°	51.8	122.8	210.0	270.9	291.8
82.5°	36.1	110.1	198.6	260.0	280.5
85°	22.2	98.7	187.7	248.5	269.6
87.5°	10.2	88.5	176.8	237.7	259.3
90°	1.1	80.7	167.9	228.7	249.8
92.5°	0.6	78.3	164.3	224.4	244.9
95°	0.0	75.8	162.6	222.0	242.5
97.5°	0.0	73.4	158.3	218.4	239.5
100°	0.0	72.3	155.2	213.1	233.5
102.5°	0.0	70.5	151.7	208.2	228.7
105°	0.0	69.8	148.1	204.0	223.9
107.5°	0.0	68.5	144.4	198.6	218.4
110°	0.0	67.4	141.4	193.7	213.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	66.3	138.4	189.0	207.5
115°	0.0	65.0	134.8	183.5	201.5
117.5°	0.0	63.2	131.2	178.1	196.2
120°	0.0	60.7	127.6	173.3	190.2
122.5°	0.0	58.3	123.9	167.3	183.5
125°	0.0	56.0	119.7	161.9	177.5
127.5°	0.0	52.3	115.0	155.9	170.4
130°	0.0	48.7	109.0	149.9	163.7
132.5°	0.6	45.1	103.0	143.2	157.0
135°	0.0	41.6	96.3	136.6	149.2
137.5°	0.0	38.5	89.0	129.4	141.4
140°	0.0	34.9	81.8	121.0	133.7
142.5°	0.0	30.7	74.7	111.9	125.2
145°	0.0	27.1	67.4	102.3	116.8
147.5°	0.6	24.0	60.7	92.1	107.7
150°	0.6	21.6	54.2	81.8	97.4
152.5°	0.6	19.3	47.6	72.3	87.2
155°	0.6	16.9	41.6	62.5	77.6
157.5°	0.6	14.5	34.9	52.9	67.4
160°	0.6	12.7	28.9	44.5	57.8
162.5°	0.6	10.9	23.5	34.9	47.6
165°	0.6	9.1	18.7	25.8	36.7
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)