

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: P284535

Luminaire Tested: **2SNLED-LD5-41HL-SLW-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P284535
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: 2SNLED-LD5-41HL-SLW-UNV-L840-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4119.0 lumens
Efficiency: N/A
Efficacy: 114.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')
CIE Type: Semi-Direct

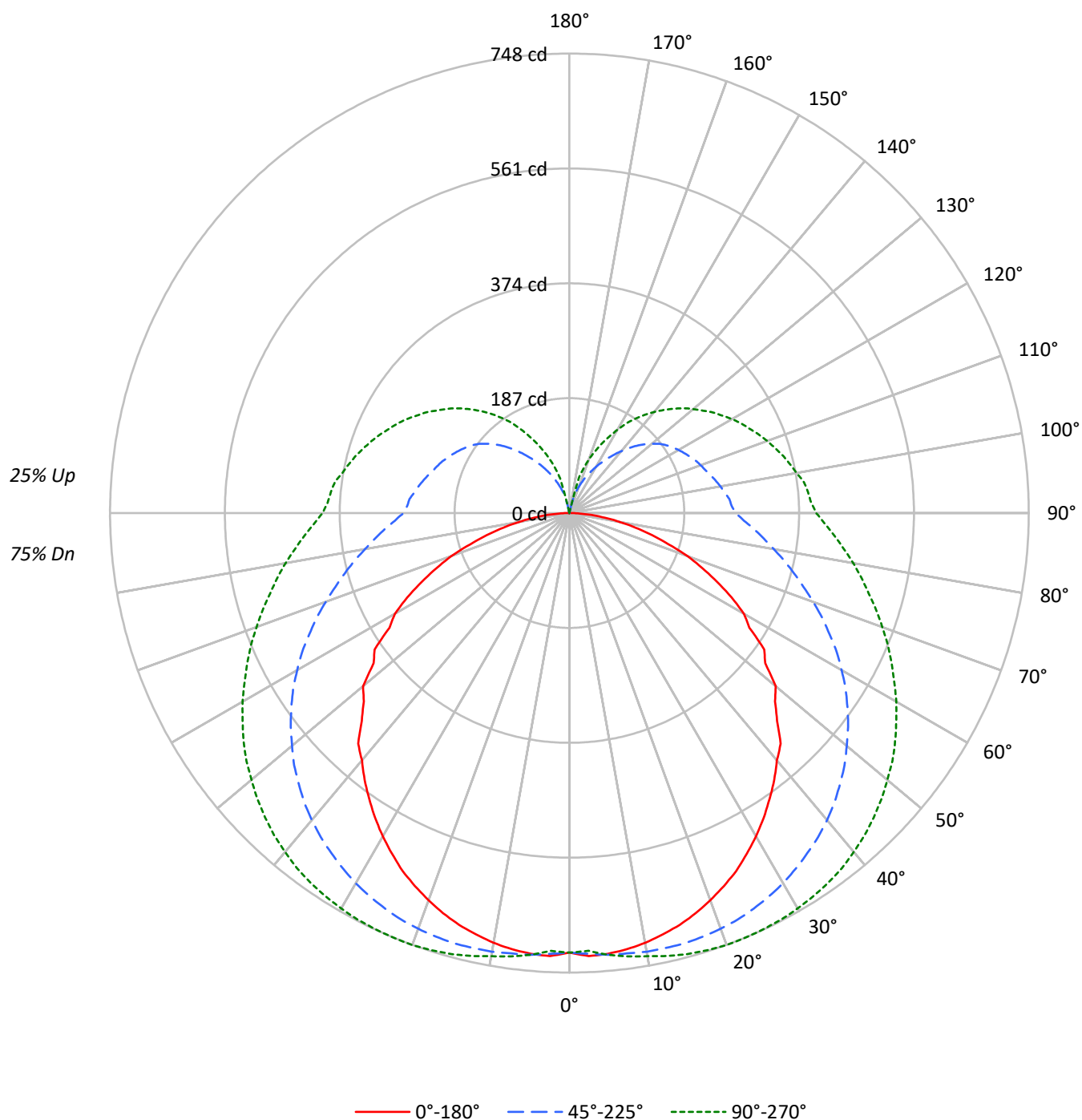
Input Watts (W): 36
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	11562	11562	11562
5°	11619	11403	11340
10°	11532	11284	11277
15°	11421	11203	11300
20°	11279	11131	11323
25°	11138	11070	11341
30°	10948	11016	11401
35°	10739	10956	11479
40°	10535	10926	11554
45°	10287	10877	11646
50°	10261	10827	11738
55°	10014	10799	11878
60°	9570	10771	12039
65°	8940	10744	12263
70°	8235	10778	12608
75°	7064	10965	13119
80°	5724	11405	13963
85°	3872	12334	15198



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.7	1.7
10°-20°	203.8	4.9
20°-30°	323.8	7.9
30°-40°	415.6	10.1
40°-50°	469.4	11.4
50°-60°	478.9	11.6
60°-70°	443.7	10.8
70°-80°	375.6	9.1
80°-90°	299.8	7.3
90°-100°	254.6	6.2
100°-110°	226.8	5.5
110°-120°	193.2	4.7
120°-130°	153.5	3.7
130°-140°	108.9	2.6
140°-150°	65.0	1.6
150°-160°	30.3	0.7
160°-170°	7.2	0.2
170°-180°	0.0	0.0
0°-30°	596.4	14.5
0°-40°	1012.0	24.6
0°-60°	1960.3	47.6
0°-90°	3079.5	74.8
90°-120°	674.7	16.4
90°-150°	1002.0	24.3
90°-180°	1040.0	25.2
0°-180°	4119.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	715	715	715	715	715	
5°	720	714	722	722	722	68
15°	694	700	725	738	743	196
25°	643	664	710	736	747	296
35°	568	610	676	717	735	356
45°	478	543	623	678	701	371
55°	387	452	553	620	648	340
65°	265	353	468	548	579	263
75°	140	247	378	471	504	148
85°	36	159	302	400	434	39
90°	2	130	270	368	402	3
95°	0	122	261	357	390	0
105°	0	112	238	328	360	0
115°	0	104	217	295	324	0
125°	0	90	192	260	286	0
135°	0	67	155	220	240	0
145°	0	44	108	164	188	0
155°	1	27	67	101	125	0
165°	1	15	30	42	59	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°	715.4	715.4	715.4	715.4	715.4
2.5°	721.9	714.3	718.3	717.2	713.3
5°	720.1	714.3	721.9	721.9	721.9
7.5°	716.2	712.3	723.0	726.9	727.9
10°	710.4	710.4	725.1	730.8	732.6
12.5°	702.6	705.5	725.1	733.7	738.4
15°	694.0	699.7	725.1	738.4	743.3
17.5°	683.3	692.9	723.0	739.4	746.2
20°	670.7	685.4	720.1	739.4	748.3
22.5°	657.1	675.7	716.2	737.6	748.3
25°	642.8	663.9	710.4	735.5	747.3
27.5°	625.3	652.4	703.6	732.6	746.2
30°	607.8	638.9	695.8	728.7	743.3
32.5°	588.5	624.2	686.1	723.0	739.4
35°	568.1	609.9	675.7	717.2	734.7
37.5°	547.7	592.4	665.0	709.4	728.7
40°	525.5	574.9	652.4	699.7	720.1
42.5°	509.1	556.6	638.9	690.1	711.5
45°	478.2	543.0	623.2	677.5	700.8
47.5°	453.9	516.9	607.8	665.0	689.0
50°	438.5	495.5	589.5	650.4	675.7
52.5°	401.7	481.1	572.0	636.0	662.9
55°	387.1	452.1	552.7	620.3	647.5
57.5°	347.4	431.7	533.3	603.1	631.0
60°	328.1	403.5	511.9	585.6	614.6
62.5°	298.0	379.5	490.8	566.3	596.3
65°	265.1	353.4	467.5	547.7	578.8
67.5°	234.3	327.3	445.3	528.4	561.3
70°	204.2	300.1	422.1	509.1	542.0
72.5°	169.2	272.9	399.6	490.8	523.7
75°	139.5	246.8	378.5	471.4	504.4
77.5°	110.2	221.7	358.1	453.9	486.9
80°	83.3	197.5	337.7	435.7	469.4
82.5°	58.0	177.1	319.4	418.2	451.1
85°	35.8	158.8	301.9	399.6	433.6
87.5°	16.5	142.3	284.4	382.4	417.1
90°	1.8	129.8	270.1	367.8	401.7
92.5°	1.0	125.9	264.3	361.0	393.9
95°	0.0	122.0	261.4	357.0	390.0
97.5°	0.0	118.1	254.7	351.3	385.3
100°	0.0	116.2	249.7	342.7	375.6
102.5°	0.0	113.4	243.9	334.8	367.8
105°	0.0	112.3	238.2	328.1	360.2
107.5°	0.0	110.2	232.2	319.4	351.3
110°	0.0	108.4	227.5	311.6	342.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	106.6	222.5	304.0	333.8
115°	0.0	104.5	216.8	295.1	324.1
117.5°	0.0	101.6	211.0	286.5	315.5
120°	0.0	97.7	205.3	278.7	305.9
122.5°	0.0	93.8	199.3	269.0	295.1
125°	0.0	90.1	192.5	260.4	285.5
127.5°	0.0	84.1	184.9	250.7	274.0
130°	0.0	78.4	175.3	241.1	263.3
132.5°	1.0	72.6	165.6	230.4	252.6
135°	0.0	66.9	154.9	219.7	240.0
137.5°	0.0	61.9	143.1	208.2	227.5
140°	0.0	56.2	131.6	194.6	215.0
142.5°	0.0	49.4	120.1	180.0	201.4
145°	0.0	43.6	108.4	164.5	187.8
147.5°	1.0	38.7	97.7	148.1	173.2
150°	1.0	34.7	87.2	131.6	156.7
152.5°	1.0	31.1	76.5	116.2	140.3
155°	1.0	27.2	66.9	100.6	124.8
157.5°	1.0	23.2	56.2	85.1	108.4
160°	1.0	20.4	46.5	71.6	93.0
162.5°	1.0	17.5	37.9	56.2	76.5
165°	1.0	14.6	30.0	41.5	59.0
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)