

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: P284700

Luminaire Tested: **4SNLED-LD5-41SL-SLW-UNV-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P284700
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-LD5-41SL-SLW-UNV-L940-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3554.0 lumens
Efficiency: N/A
Efficacy: 93.5 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

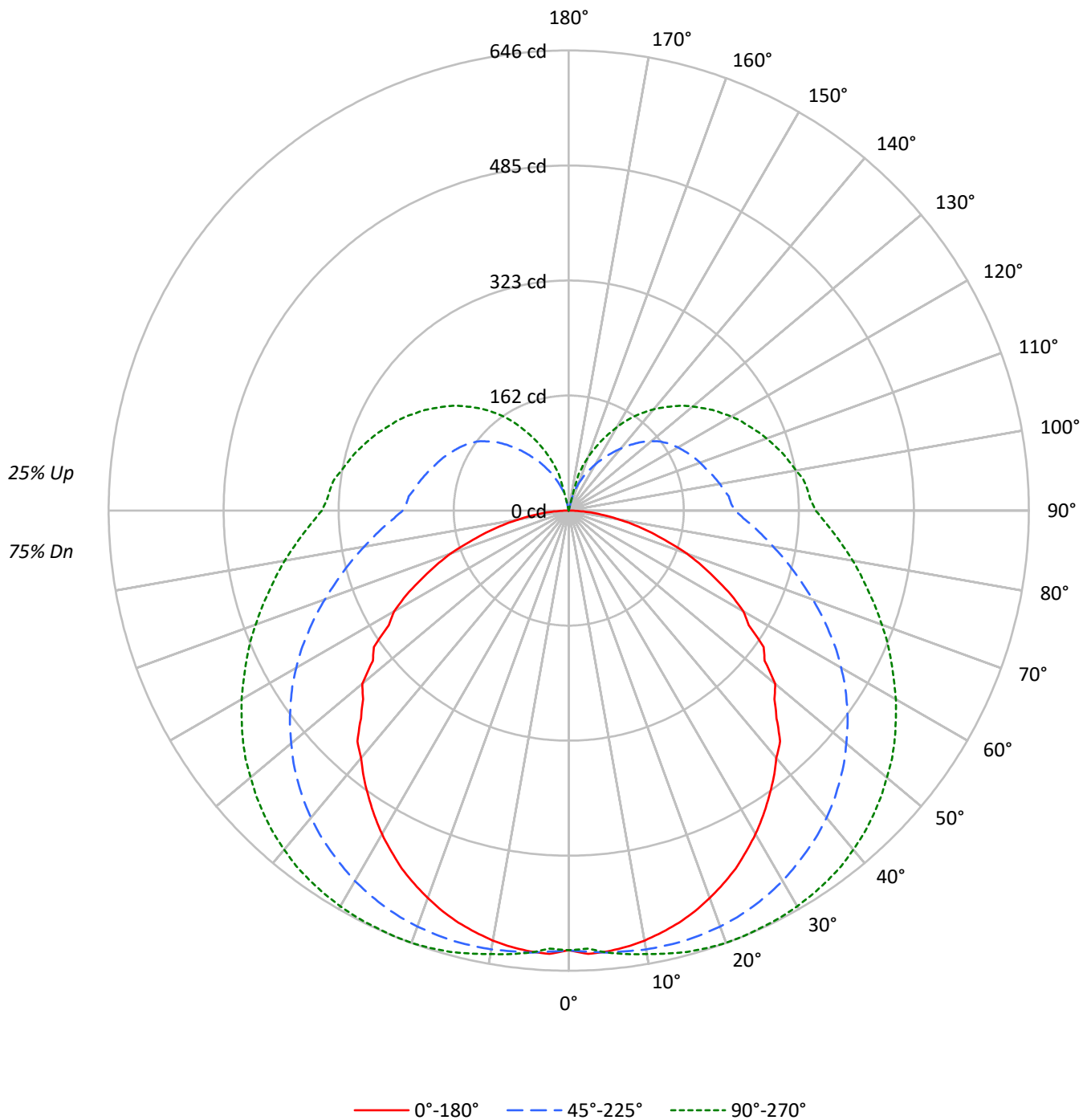
Input Watts (W): 38
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																					
0	113	113	113	113		107	107	107	107		97	97	97		88	88	88		79	79	79
1	100	94	89	84		95	89	84	80		80	76	73		72	69	66		64	62	60
2	90	80	72	66		85	76	69	63		68	63	58		61	57	53		55	51	48
3	81	69	60	53		76	66	58	51		59	53	47		53	48	43		47	43	39
4	74	61	51	44		69	58	49	43		52	45	39		47	41	36		42	37	33
5	67	54	44	37		63	51	43	36		46	39	33		42	35	31		37	32	28
6	62	48	39	32		58	46	37	31		41	34	29		37	31	27		34	28	24
7	57	43	34	28		54	41	33	27		37	30	25		34	28	23		30	25	21
8	53	39	31	25		50	37	29	24		34	27	22		31	25	21		28	23	19
9	49	36	27	22		47	34	26	21		31	24	20		28	23	18		26	21	17
10	46	33	25	20		44	31	24	19		29	22	18		26	21	16		24	19	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4988	4988	4988
5°	5026	4929	4892
10°	5003	4886	4865
15°	4968	4859	4876
20°	4921	4837	4885
25°	4874	4820	4893
30°	4807	4805	4919
35°	4732	4787	4952
40°	4661	4785	4984
45°	4572	4773	5024
50°	4586	4762	5064
55°	4505	4763	5124
60°	4341	4765	5194
65°	4098	4771	5290
70°	3834	4807	5439
75°	3364	4917	5660
80°	2842	5155	6024
85°	2111	5635	6556



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.3	1.7
10°-20°	175.8	4.9
20°-30°	279.4	7.9
30°-40°	358.6	10.1
40°-50°	405.0	11.4
50°-60°	413.2	11.6
60°-70°	382.8	10.8
70°-80°	324.1	9.1
80°-90°	258.7	7.3
90°-100°	219.7	6.2
100°-110°	195.7	5.5
110°-120°	166.7	4.7
120°-130°	132.4	3.7
130°-140°	93.9	2.6
140°-150°	56.1	1.6
150°-160°	26.2	0.7
160°-170°	6.2	0.2
170°-180°	0.0	0.0
0°-30°	514.6	14.5
0°-40°	873.2	24.6
0°-60°	1691.4	47.6
0°-90°	2657.1	74.8
90°-120°	582.1	16.4
90°-150°	864.6	24.3
90°-180°	897.0	25.2
0°-180°	3554.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	617	617	617	617	617	
5°	621	616	623	623	623	59
15°	599	604	626	637	641	169
25°	555	573	613	635	645	255
35°	490	526	583	619	634	307
45°	413	468	538	585	605	320
55°	334	390	477	535	559	293
65°	229	305	403	473	499	227
75°	120	213	326	407	435	128
85°	31	137	260	345	374	34
90°	2	112	233	317	347	3
95°	0	105	226	308	336	0
105°	0	97	206	283	311	0
115°	0	90	187	255	280	0
125°	0	78	166	225	246	0
135°	0	58	134	190	207	0
145°	0	38	94	142	162	0
155°	1	23	58	87	108	0
165°	1	13	26	36	51	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°	617.3	617.3	617.3	617.3	617.3
2.5°	622.9	616.4	619.7	618.8	615.5
5°	621.3	616.4	622.9	622.9	622.9
7.5°	617.9	614.6	623.8	627.2	628.1
10°	613.0	613.0	625.6	630.6	632.1
12.5°	606.2	608.7	625.6	633.0	637.1
15°	598.8	603.7	625.6	637.1	641.4
17.5°	589.5	597.9	623.8	638.0	643.9
20°	578.7	591.3	621.3	638.0	645.7
22.5°	567.0	583.0	617.9	636.4	645.7
25°	554.6	572.9	613.0	634.6	644.8
27.5°	539.5	563.0	607.1	632.1	643.9
30°	524.4	551.2	600.4	628.8	641.4
32.5°	507.7	538.6	592.0	623.8	638.0
35°	490.2	526.2	583.0	618.8	633.9
37.5°	472.6	511.1	573.8	612.1	628.8
40°	453.4	496.0	563.0	603.7	621.3
42.5°	439.2	480.2	551.2	595.4	613.9
45°	412.6	468.5	537.7	584.6	604.6
47.5°	391.7	446.0	524.4	573.8	594.5
50°	378.4	427.5	508.6	561.1	583.0
52.5°	346.6	415.1	493.5	548.8	572.0
55°	334.0	390.1	476.9	535.2	558.7
57.5°	299.7	372.5	460.2	520.4	544.5
60°	283.1	348.2	441.7	505.3	530.3
62.5°	257.1	327.4	423.5	488.6	514.5
65°	228.7	304.9	403.4	472.6	499.4
67.5°	202.1	282.4	384.2	455.9	484.3
70°	176.2	258.9	364.2	439.2	467.6
72.5°	146.0	235.5	344.8	423.5	451.8
75°	120.3	213.0	326.5	406.8	435.2
77.5°	95.1	191.3	309.0	391.7	420.1
80°	71.9	170.4	291.4	375.9	405.0
82.5°	50.0	152.8	275.6	360.8	389.2
85°	30.9	137.0	260.5	344.8	374.1
87.5°	14.2	122.8	245.4	329.9	359.9
90°	1.6	112.0	233.0	317.3	346.6
92.5°	0.9	108.6	228.1	311.4	339.8
95°	0.0	105.2	225.6	308.1	336.5
97.5°	0.0	101.9	219.7	303.1	332.4
100°	0.0	100.3	215.4	295.7	324.1
102.5°	0.0	97.8	210.5	288.9	317.3
105°	0.0	96.9	205.5	283.1	310.8
107.5°	0.0	95.1	200.3	275.6	303.1
110°	0.0	93.5	196.3	268.9	295.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	91.9	192.0	262.3	288.0
115°	0.0	90.1	187.0	254.7	279.7
117.5°	0.0	87.7	182.1	247.2	272.2
120°	0.0	84.3	177.1	240.5	263.9
122.5°	0.0	80.9	172.0	232.1	254.7
125°	0.0	77.7	166.1	224.7	246.3
127.5°	0.0	72.6	159.6	216.3	236.4
130°	0.0	67.6	151.2	208.0	227.2
132.5°	0.9	62.7	142.9	198.8	217.9
135°	0.0	57.7	133.6	189.5	207.1
137.5°	0.0	53.4	123.5	179.6	196.3
140°	0.0	48.5	113.6	167.9	185.5
142.5°	0.0	42.6	103.7	155.3	173.8
145°	0.0	37.6	93.5	142.0	162.0
147.5°	0.9	33.4	84.3	127.8	149.4
150°	0.9	30.0	75.3	113.6	135.2
152.5°	0.9	26.8	66.0	100.3	121.0
155°	0.9	23.4	57.7	86.8	107.7
157.5°	0.9	20.1	48.5	73.5	93.5
160°	0.9	17.6	40.1	61.7	80.2
162.5°	0.9	15.1	32.7	48.5	66.0
165°	0.9	12.6	25.9	35.8	50.9
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)