

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-LD5-92HL-SLC-UNV-L940-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 (P27404)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-92HL-SLC-UNV-L940-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

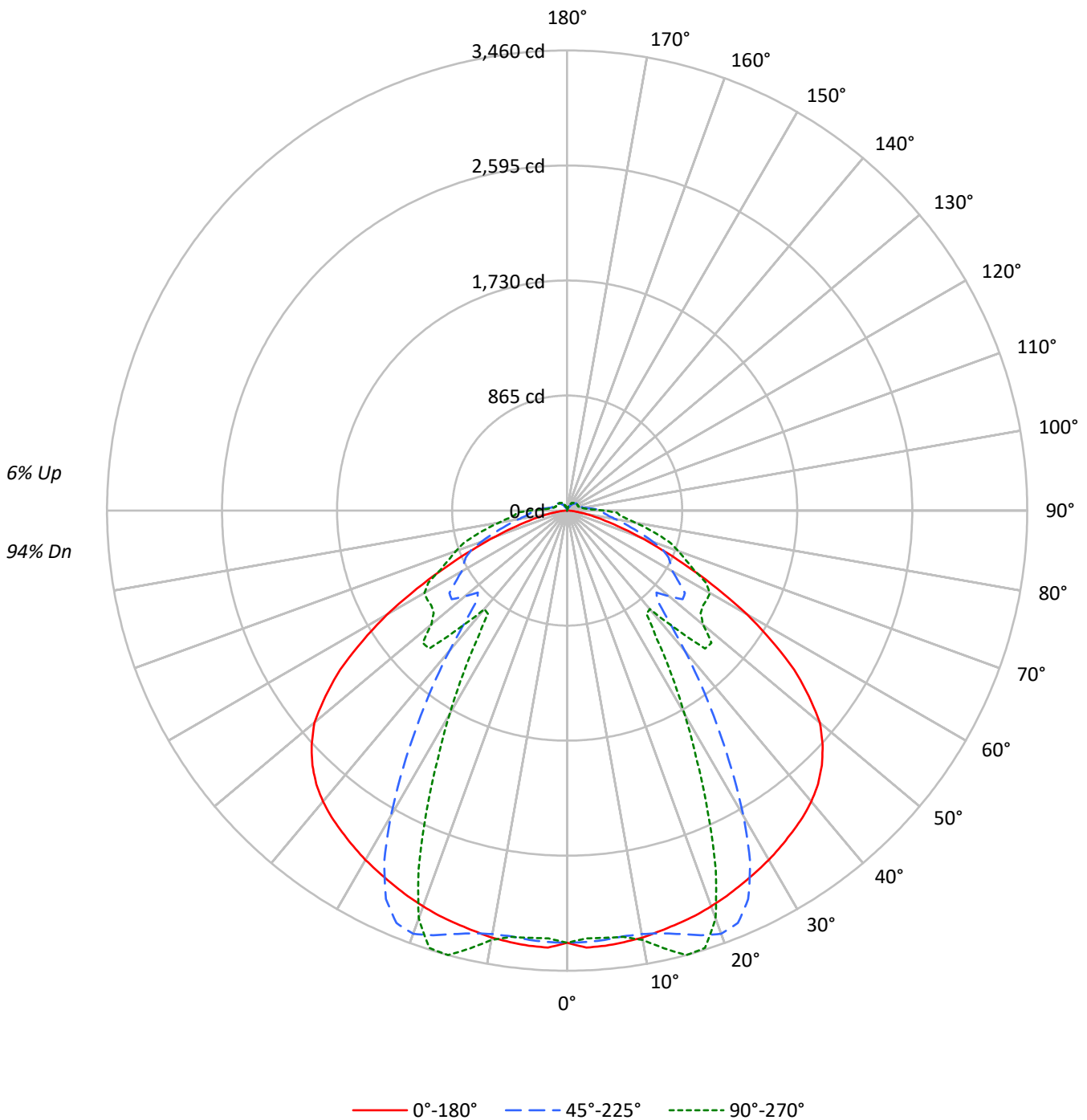
Lumens per Lamp: N/A
Luminaire Lumens: 8345.0 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 79
Input Voltage (V): NR
Input Current (A_{in}): 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	50	30	10	0	
RCR																						
0	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94				
1	107	102	98	94	104	99	95	92	94	91	88	89	87	84	85	83	81	78				
2	98	90	83	77	95	87	81	76	83	78	73	79	74	71	75	71	68	66				
3	89	79	71	65	87	77	70	64	73	67	62	70	65	60	67	62	59	56				
4	82	71	62	56	80	69	61	55	66	59	53	63	57	52	60	55	51	49				
5	76	63	55	48	74	62	54	48	59	52	47	57	51	46	54	49	45	43				
6	70	58	49	43	68	56	48	42	54	47	41	52	45	41	50	44	40	38				
7	66	52	44	38	64	51	43	38	49	42	37	47	41	36	46	40	36	34				
8	61	48	40	34	59	47	39	34	45	38	33	44	37	33	42	37	32	30				
9	57	44	36	31	56	44	36	31	42	35	30	41	34	30	39	34	29	28				
10	54	41	33	28	52	40	33	28	39	32	28	38	32	27	37	31	27	25				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	26252	26252	26252
5°	26572	25638	25323
10°	26605	25247	25235
15°	26679	25603	26301
20°	26926	26365	24688
25°	27261	25338	19009
30°	27799	21222	13521
35°	28488	16072	9155
40°	29358	11684	7753
45°	30024	8476	12188
50°	30067	9385	11567
55°	28104	10801	11423
60°	23946	9884	12141
65°	18014	9968	11106
70°	12642	9074	10337
75°	8282	7603	9276
80°	5285	6512	7721
85°	2849	6191	6931



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.1	3.7
10°-20°	933.4	11.2
20°-30°	1355.8	16.2
30°-40°	1295.4	15.5
40°-50°	1185.0	14.2
50°-60°	1094.1	13.1
60°-70°	869.1	10.4
70°-80°	536.4	6.4
80°-90°	292.1	3.5
90°-100°	147.6	1.8
100°-110°	92.8	1.1
110°-120°	78.6	0.9
120°-130°	64.2	0.8
130°-140°	46.0	0.6
140°-150°	28.4	0.3
150°-160°	13.5	0.2
160°-170°	3.5	0.0
170°-180°	0.0	0.0
0°-30°	2598.3	31.1
0°-40°	3893.7	46.7
0°-60°	6172.8	74.0
0°-90°	7870.4	94.3
90°-120°	319.0	3.8
90°-150°	457.6	5.5
90°-180°	475.0	5.7
0°-180°	8345.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3249	3249	3249	3249	3249	
5°	3285	3234	3240	3223	3224	313
15°	3216	3172	3296	3418	3460	910
25°	3102	3162	3223	2728	2505	1434
35°	2951	2904	1957	1348	1172	1850
45°	2709	1890	955	1218	1467	2082
55°	2084	969	1081	1163	1245	1835
65°	1005	628	843	1024	1048	1016
75°	296	335	505	669	713	336
85°	42	142	286	390	396	53
90°	1	106	256	303	280	2
95°	0	99	177	157	148	0
105°	0	89	109	99	98	0
115°	0	73	105	94	89	1
125°	1	59	94	91	86	1
135°	1	42	75	82	79	1
145°	1	26	52	66	70	1
155°	3	16	32	42	50	1
165°	3	9	16	20	27	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-92HL-SLC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3248.6	3248.6	3248.6	3248.6	3248.6
2.5°	3288.9	3241.4	3247.2	3237.1	3219.9
5°	3284.6	3234.2	3240.0	3222.7	3224.2
7.5°	3273.1	3221.3	3228.5	3225.6	3232.8
10°	3260.1	3205.5	3232.8	3257.3	3278.8
12.5°	3237.1	3188.2	3254.4	3326.3	3370.9
15°	3215.6	3172.4	3296.1	3418.3	3460.0
17.5°	3194.0	3166.7	3347.9	3454.3	3448.5
20°	3166.7	3163.8	3386.7	3350.7	3263.0
22.5°	3136.5	3165.2	3356.5	3093.3	2920.7
25°	3101.9	3162.3	3222.7	2728.0	2505.1
27.5°	3067.4	3149.4	2979.7	2328.3	2108.2
30°	3032.9	3114.9	2651.8	1963.0	1763.1
32.5°	2992.7	3040.1	2295.2	1639.4	1455.3
35°	2950.9	2903.5	1957.2	1347.5	1172.0
37.5°	2907.8	2706.5	1653.8	1091.5	979.3
40°	2856.0	2459.1	1374.8	936.2	966.4
42.5°	2791.3	2180.1	1128.9	982.2	1192.2
45°	2709.3	1889.6	954.9	1218.1	1466.8
47.5°	2605.8	1610.7	911.7	1394.9	1472.6
50°	2480.7	1354.7	1002.3	1337.4	1331.7
52.5°	2290.9	1141.8	1094.4	1219.5	1265.5
55°	2083.8	969.3	1081.4	1163.4	1245.4
57.5°	1822.1	852.8	992.3	1151.9	1246.8
60°	1561.8	775.1	916.1	1150.5	1239.6
62.5°	1274.1	704.7	877.2	1123.1	1176.4
65°	1005.2	628.4	842.7	1023.9	1048.4
67.5°	770.8	550.8	782.3	913.2	962.1
70°	581.0	474.6	687.4	828.3	888.7
72.5°	418.5	402.7	589.6	753.6	816.8
75°	296.2	335.1	504.8	668.7	713.3
77.5°	204.2	273.2	432.9	575.2	611.2
80°	133.7	218.6	368.1	494.7	519.1
82.5°	80.5	175.4	319.3	432.9	445.8
85°	41.7	142.4	286.2	389.7	395.5
87.5°	12.9	119.4	267.5	369.6	376.8
90°	1.4	106.4	256.0	303.4	280.4
92.5°	0.0	100.7	221.5	207.1	185.5
95°	0.0	99.2	176.9	156.8	148.1
97.5°	0.0	96.4	145.2	130.9	126.6
100°	0.0	93.5	125.1	115.0	113.6
102.5°	0.0	92.0	113.6	105.0	103.5
105°	0.0	89.2	109.3	99.2	97.8
107.5°	0.0	84.8	106.4	96.4	93.5
110°	0.0	80.5	106.4	94.9	90.6



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-92HL-SLC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	76.2	106.4	93.5	89.2
115°	0.0	73.3	105.0	93.5	89.2
117.5°	1.4	70.5	103.5	93.5	89.2
120°	0.0	67.6	100.7	93.5	87.7
122.5°	1.4	63.3	97.8	92.0	87.7
125°	1.4	59.0	93.5	90.6	86.3
127.5°	1.4	54.6	89.2	87.7	83.4
130°	1.4	50.3	84.8	86.3	82.0
132.5°	1.4	46.0	79.1	83.4	80.5
135°	1.4	41.7	74.8	82.0	79.1
137.5°	1.4	37.4	69.0	77.7	77.7
140°	1.4	33.1	63.3	74.8	76.2
142.5°	1.4	30.2	57.5	71.9	73.3
145°	1.4	25.9	51.8	66.2	70.5
147.5°	1.4	23.0	46.0	60.4	66.2
150°	1.4	20.1	40.3	54.6	60.4
152.5°	1.4	17.3	36.0	47.5	56.1
155°	2.9	15.8	31.6	41.7	50.3
157.5°	2.9	12.9	25.9	36.0	43.1
160°	2.9	11.5	23.0	30.2	38.8
162.5°	2.9	10.1	18.7	25.9	33.1
165°	2.9	8.6	15.8	20.1	27.3
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)