

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-L840-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-L840-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
CLEAR SQUARE LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

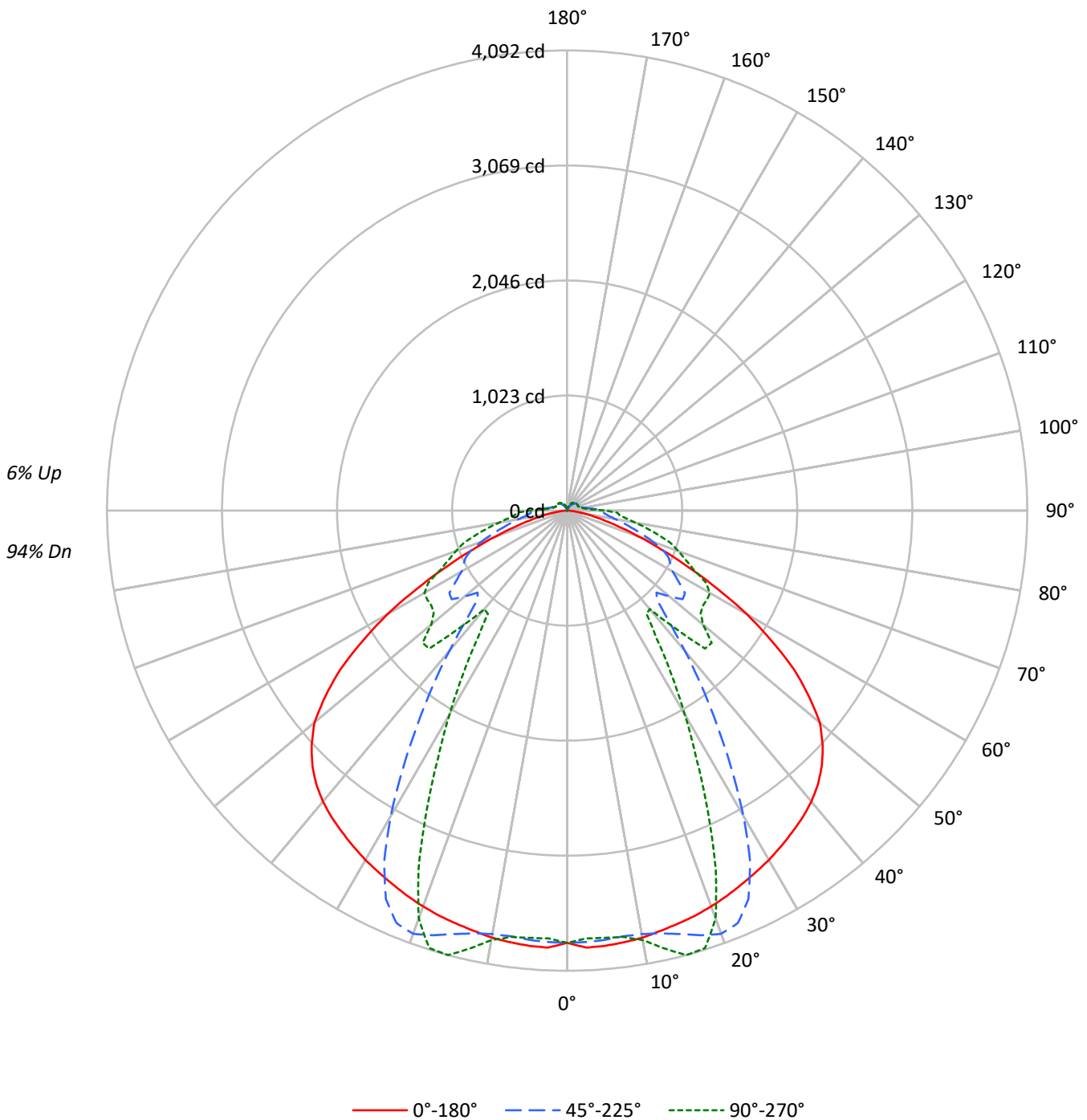
Lumens per Lamp: N/A  
Luminaire Lumens: 9870.0 lumens  
Efficiency: N/A  
Efficacy: 124.9 lumens/watt  
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 79  
Input Voltage (V): NR  
Input Current (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	0
RW	70	50	30	10	70	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°	31050	31050	31050
5°	31427	30323	29950
10°	31467	29861	29846
15°	31554	30281	31108
20°	31846	31183	29199
25°	32243	29969	22483
30°	32880	25100	15992
35°	33694	19010	10829
40°	34724	13819	9169
45°	35512	10025	14416
50°	35561	11100	13681
55°	33240	12775	13510
60°	28322	11690	14360
65°	21306	11789	13135
70°	14953	10731	12226
75°	9798	8991	10971
80°	6254	7702	9132
85°	3368	7322	8197



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	365.5	3.7
10°-20°	1103.9	11.2
20°-30°	1603.6	16.2
30°-40°	1532.2	15.5
40°-50°	1401.5	14.2
50°-60°	1294.1	13.1
60°-70°	1027.9	10.4
70°-80°	634.5	6.4
80°-90°	345.5	3.5
90°-100°	174.6	1.8
100°-110°	109.8	1.1
110°-120°	93.0	0.9
120°-130°	75.9	0.8
130°-140°	54.4	0.6
140°-150°	33.6	0.3
150°-160°	15.9	0.2
160°-170°	4.1	0.0
170°-180°	0.0	0.0
0°-30°	3073.1	31.1
0°-40°	4605.2	46.7
0°-60°	7300.9	74.0
0°-90°	9308.7	94.3
90°-120°	377.3	3.8
90°-150°	541.3	5.5
90°-180°	561.0	5.7
0°-180°	9870.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3842	3842	3842	3842	3842	
5°	3885	3825	3832	3812	3813	370
15°	3803	3752	3898	4043	4092	1076
25°	3669	3740	3812	3227	2963	1696
35°	3490	3434	2315	1594	1386	2189
45°	3204	2235	1129	1441	1735	2463
55°	2465	1146	1279	1376	1473	2171
65°	1189	743	997	1211	1240	1202
75°	350	396	597	791	844	397
85°	49	168	338	461	468	63
90°	2	126	303	359	332	3
95°	0	117	209	185	175	0
105°	0	106	129	117	116	0
115°	0	87	124	111	106	1
125°	2	70	111	107	102	1
135°	2	49	88	97	94	1
145°	2	31	61	78	83	1
155°	3	19	37	49	60	1
165°	3	10	19	24	32	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P#

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3842.3	3842.3	3842.3	3842.3	3842.3
2.5°	3889.9	3833.8	3840.6	3828.7	3808.3
5°	3884.8	3825.3	3832.1	3811.7	3813.4
7.5°	3871.2	3810.0	3818.5	3815.1	3823.6
10°	3855.9	3791.3	3823.6	3852.5	3878.0
12.5°	3828.7	3770.9	3849.1	3934.1	3986.9
15°	3803.2	3752.1	3898.4	4043.0	4092.3
17.5°	3777.7	3745.3	3959.7	4085.5	4078.7
20°	3745.3	3741.9	4005.6	3963.1	3859.3
22.5°	3709.6	3743.6	3969.9	3658.6	3454.5
25°	3668.8	3740.2	3811.7	3226.6	2962.9
27.5°	3628.0	3724.9	3524.2	2753.7	2493.5
30°	3587.2	3684.1	3136.4	2321.7	2085.3
32.5°	3539.5	3595.7	2714.6	1939.0	1721.3
35°	3490.2	3434.1	2314.9	1593.7	1386.2
37.5°	3439.2	3201.1	1956.0	1291.0	1158.3
40°	3378.0	2908.5	1626.0	1107.3	1143.0
42.5°	3301.4	2578.5	1335.2	1161.7	1410.0
45°	3204.5	2235.0	1129.4	1440.6	1734.9
47.5°	3082.0	1905.0	1078.4	1649.9	1741.7
50°	2934.0	1602.2	1185.5	1581.8	1575.0
52.5°	2709.5	1350.5	1294.4	1442.3	1496.8
55°	2464.6	1146.4	1279.1	1376.0	1473.0
57.5°	2155.0	1008.6	1173.6	1362.4	1474.7
60°	1847.2	916.8	1083.5	1360.7	1466.2
62.5°	1507.0	833.4	1037.5	1328.4	1391.3
65°	1188.9	743.3	996.7	1211.0	1239.9
67.5°	911.7	651.4	925.3	1080.1	1137.9
70°	687.2	561.3	813.0	979.7	1051.1
72.5°	495.0	476.2	697.4	891.3	966.1
75°	350.4	396.3	597.0	790.9	843.6
77.5°	241.5	323.2	512.0	680.4	722.9
80°	158.2	258.5	435.4	585.1	614.0
82.5°	95.2	207.5	377.6	512.0	527.3
85°	49.3	168.4	338.5	460.9	467.7
87.5°	15.3	141.2	316.4	437.1	445.6
90°	1.7	125.9	302.8	358.9	331.7
92.5°	0.0	119.1	261.9	244.9	219.4
95°	0.0	117.4	209.2	185.4	175.2
97.5°	0.0	114.0	171.8	154.8	149.7
100°	0.0	110.6	148.0	136.1	134.4
102.5°	0.0	108.9	134.4	124.2	122.5
105°	0.0	105.5	129.3	117.4	115.7
107.5°	0.0	100.4	125.9	114.0	110.6
110°	0.0	95.2	125.9	112.3	107.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	90.1	125.9	110.6	105.5
115°	0.0	86.7	124.2	110.6	105.5
117.5°	1.7	83.3	122.5	110.6	105.5
120°	0.0	79.9	119.1	110.6	103.8
122.5°	1.7	74.8	115.7	108.9	103.8
125°	1.7	69.7	110.6	107.2	102.1
127.5°	1.7	64.6	105.5	103.8	98.7
130°	1.7	59.5	100.4	102.1	97.0
132.5°	1.7	54.4	93.5	98.7	95.2
135°	1.7	49.3	88.4	97.0	93.5
137.5°	1.7	44.2	81.6	91.8	91.8
140°	1.7	39.1	74.8	88.4	90.1
142.5°	1.7	35.7	68.0	85.0	86.7
145°	1.7	30.6	61.2	78.2	83.3
147.5°	1.7	27.2	54.4	71.4	78.2
150°	1.7	23.8	47.6	64.6	71.4
152.5°	1.7	20.4	42.5	56.1	66.3
155°	3.4	18.7	37.4	49.3	59.5
157.5°	3.4	15.3	30.6	42.5	51.0
160°	3.4	13.6	27.2	35.7	45.9
162.5°	3.4	11.9	22.1	30.6	39.1
165°	3.4	10.2	18.7	23.8	32.3
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)