

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-LD5-90HL-SLN-UNV-L950-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 (P27402)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-90HL-SLN-UNV-L950-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

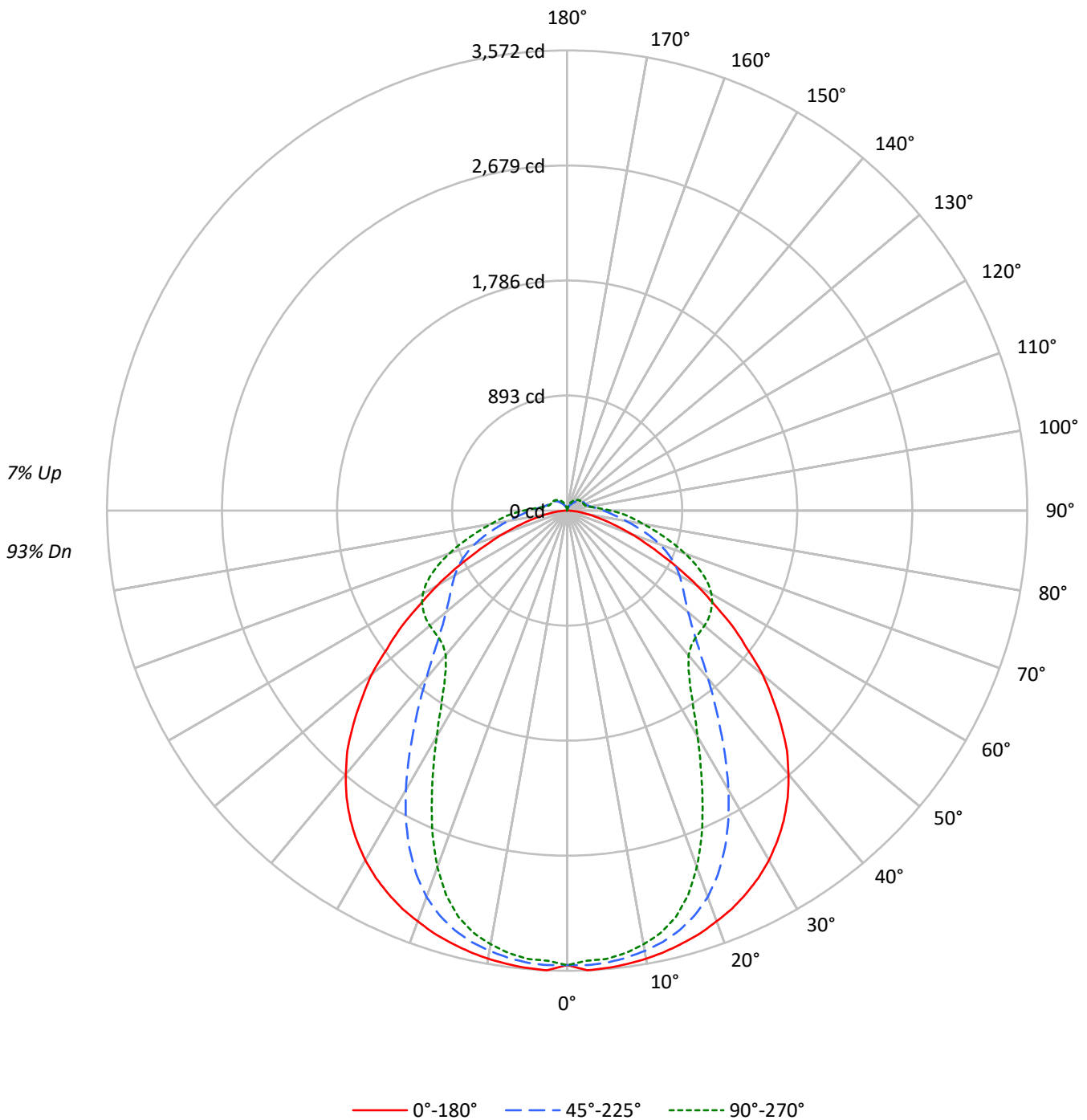
Lumens per Lamp: N/A
Luminaire Lumens: 8871.0 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	93
1	107	102	97	93	103	99	94	91	93	90	87	88	85	83	83	81	79	76
2	97	89	82	76	94	86	80	75	81	76	72	77	73	69	73	70	66	64
3	89	78	70	64	86	76	69	63	72	66	61	68	63	59	65	61	57	54
4	82	70	61	55	79	68	60	54	65	58	52	61	55	51	58	53	49	47
5	75	63	54	47	73	61	53	47	58	51	46	55	49	44	53	48	43	41
6	70	57	48	42	67	55	47	41	53	46	40	51	44	39	48	43	39	36
7	65	52	43	37	63	51	42	37	48	41	36	46	40	35	44	39	35	32
8	61	47	39	33	59	46	39	33	44	37	32	43	36	32	41	35	31	29
9	57	44	36	30	55	43	35	30	41	34	29	40	33	29	38	33	28	27
10	53	40	33	28	52	40	32	27	38	32	27	37	31	27	35	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	28506	28506	28506
5°	28834	27876	27439
10°	28824	27105	26310
15°	28833	26197	24810
20°	28847	24847	22281
25°	28858	22768	18868
30°	28721	20034	15519
35°	28312	17045	13006
40°	27483	14436	11757
45°	26027	12546	11668
50°	24043	11469	12077
55°	21172	11024	12499
60°	17863	10867	12673
65°	14369	10625	12278
70°	11541	10077	11323
75°	8702	9119	10047
80°	6424	8191	8937
85°	4297	7727	8221



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	333.7	3.8
10°-20°	943.3	10.6
20°-30°	1318.6	14.9
30°-40°	1367.7	15.4
40°-50°	1263.6	14.2
50°-60°	1128.1	12.7
60°-70°	914.3	10.3
70°-80°	608.1	6.9
80°-90°	348.2	3.9
90°-100°	192.7	2.2
100°-110°	130.5	1.5
110°-120°	108.6	1.2
120°-130°	88.3	1.0
130°-140°	63.7	0.7
140°-150°	38.4	0.4
150°-160°	18.5	0.2
160°-170°	4.8	0.1
170°-180°	0.0	0.0
0°-30°	2595.6	29.3
0°-40°	3963.4	44.7
0°-60°	6355.0	71.6
0°-90°	8225.6	92.7
90°-120°	431.7	4.9
90°-150°	622.1	7.0
90°-180°	645.0	7.3
0°-180°	8871.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3528	3528	3528	3528	3528	
5°	3564	3504	3523	3498	3494	339
15°	3475	3402	3373	3296	3264	982
25°	3284	3138	2896	2592	2486	1513
35°	2933	2611	2076	1743	1665	1830
45°	2349	1861	1413	1363	1404	1806
55°	1570	1187	1104	1283	1363	1396
65°	802	718	898	1101	1159	810
75°	311	389	606	742	773	341
85°	63	181	357	457	469	72
90°	3	127	282	340	337	5
95°	3	107	224	239	232	2
105°	2	94	161	156	149	2
115°	2	84	143	141	136	1
125°	2	72	126	132	129	2
135°	3	54	100	116	116	2
145°	3	34	69	90	97	2
155°	3	22	43	57	69	1
165°	3	12	22	28	37	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3527.5	3527.5	3527.5	3527.5	3527.5
2.5°	3571.9	3513.7	3532.1	3516.7	3496.8
5°	3564.3	3504.5	3522.9	3498.3	3493.7
7.5°	3550.5	3490.7	3501.4	3472.3	3464.6
10°	3532.1	3469.2	3470.7	3429.4	3418.6
12.5°	3507.5	3438.5	3429.4	3372.6	3357.3
15°	3475.3	3401.8	3372.6	3296.0	3263.8
17.5°	3440.1	3354.2	3294.4	3176.4	3125.8
20°	3392.6	3296.0	3191.7	3012.4	2944.9
22.5°	3345.0	3225.5	3058.4	2819.2	2728.8
25°	3283.7	3138.1	2895.9	2592.3	2486.5
27.5°	3214.7	3035.4	2708.8	2359.3	2245.9
30°	3133.5	2911.2	2503.4	2130.9	2023.6
32.5°	3038.4	2771.7	2287.3	1925.5	1825.8
35°	2932.7	2610.7	2075.7	1743.0	1664.9
37.5°	2811.5	2434.4	1879.5	1595.9	1545.3
40°	2673.6	2242.8	1698.6	1482.4	1465.6
42.5°	2524.9	2055.8	1543.7	1408.8	1424.2
45°	2348.6	1861.1	1413.4	1362.8	1404.2
47.5°	2163.1	1671.0	1307.7	1336.8	1396.6
50°	1983.7	1494.7	1224.9	1319.9	1390.4
52.5°	1761.4	1336.8	1159.0	1304.6	1381.2
55°	1569.8	1186.6	1103.8	1283.1	1362.8
57.5°	1349.1	1051.6	1054.7	1255.5	1335.3
60°	1165.1	929.0	1007.2	1217.2	1293.9
62.5°	978.1	818.6	955.1	1166.6	1235.6
65°	801.8	717.5	898.3	1100.7	1159.0
67.5°	654.6	625.5	834.0	1021.0	1070.0
70°	530.4	541.2	763.4	932.1	973.5
72.5°	407.8	463.0	686.8	837.0	872.3
75°	311.2	389.4	605.5	742.0	772.6
77.5°	230.0	325.0	532.0	656.1	682.2
80°	162.5	268.3	463.0	581.0	600.9
82.5°	108.8	220.8	406.2	513.6	532.0
85°	62.9	180.9	357.2	456.8	469.1
87.5°	26.1	150.2	317.3	398.6	404.7
90°	3.1	127.2	282.1	340.3	337.3
92.5°	3.1	115.0	251.4	285.1	277.5
95°	3.1	107.3	223.8	239.2	231.5
97.5°	3.1	102.7	199.3	205.4	197.8
100°	1.5	99.6	182.4	182.4	174.8
102.5°	1.5	96.6	170.2	165.6	159.4
105°	1.5	93.5	161.0	156.4	148.7
107.5°	1.5	92.0	154.8	150.2	142.6
110°	1.5	88.9	150.2	145.6	139.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.5	87.4	147.2	144.1	136.4
115°	1.5	84.3	142.6	141.0	136.4
117.5°	1.5	81.2	139.5	139.5	134.9
120°	1.5	78.2	134.9	138.0	133.4
122.5°	1.5	75.1	130.3	134.9	130.3
125°	1.5	72.1	125.7	131.8	128.8
127.5°	3.1	67.5	119.6	128.8	125.7
130°	1.5	62.9	113.4	125.7	124.2
132.5°	3.1	58.3	107.3	121.1	121.1
135°	3.1	53.7	99.6	116.5	116.5
137.5°	3.1	47.5	92.0	110.4	111.9
140°	3.1	42.9	84.3	104.2	107.3
142.5°	3.1	38.3	76.7	98.1	102.7
145°	3.1	33.7	69.0	90.4	96.6
147.5°	3.1	30.7	61.3	81.2	90.4
150°	3.1	26.1	55.2	73.6	82.8
152.5°	3.1	23.0	49.1	65.9	76.7
155°	3.1	21.5	42.9	56.7	69.0
157.5°	3.1	18.4	36.8	49.1	61.3
160°	3.1	15.3	30.7	42.9	52.1
162.5°	3.1	13.8	26.1	35.3	46.0
165°	3.1	12.3	21.5	27.6	36.8
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)