

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-L930-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-L930-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

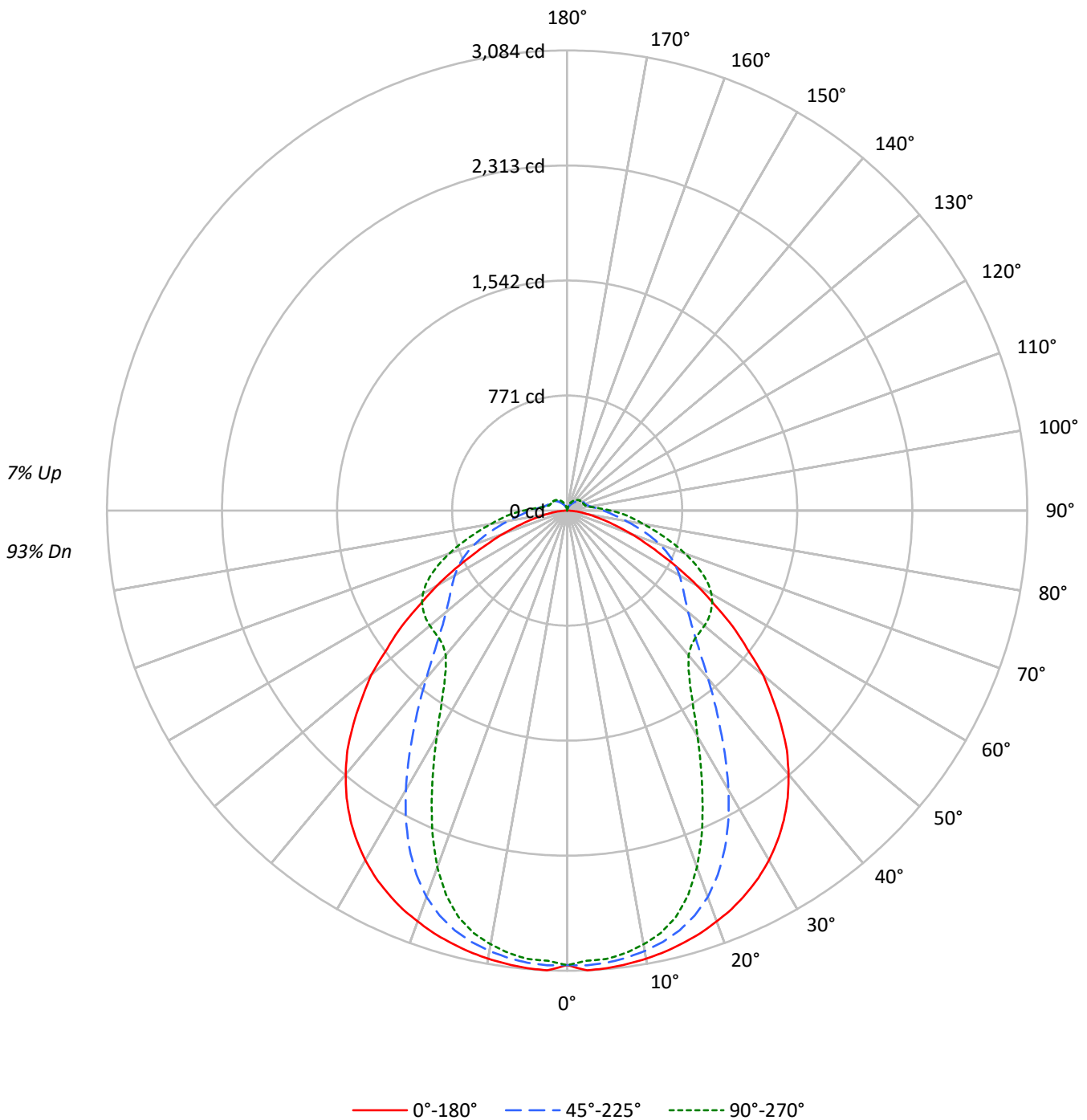
Lumens per Lamp: N/A
Luminaire Lumens: 7660.0 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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°	24614	24614	24614
5°	24898	24071	23694
10°	24889	23405	22719
15°	24897	22621	21423
20°	24908	21455	19239
25°	24918	19660	16293
30°	24800	17299	13400
35°	24446	14718	11230
40°	23731	12465	10152
45°	22474	10833	10075
50°	20761	9904	10428
55°	18282	9519	10793
60°	15424	9383	10942
65°	12406	9175	10601
70°	9966	8701	9777
75°	7513	7875	8677
80°	5546	7073	7718
85°	3710	6671	7100



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.2	3.8
10°-20°	814.5	10.6
20°-30°	1138.6	14.9
30°-40°	1181.0	15.4
40°-50°	1091.1	14.2
50°-60°	974.1	12.7
60°-70°	789.4	10.3
70°-80°	525.1	6.9
80°-90°	300.7	3.9
90°-100°	166.4	2.2
100°-110°	112.6	1.5
110°-120°	93.8	1.2
120°-130°	76.2	1.0
130°-140°	55.0	0.7
140°-150°	33.2	0.4
150°-160°	15.9	0.2
160°-170°	4.1	0.1
170°-180°	0.0	0.0
0°-30°	2241.3	29.3
0°-40°	3422.3	44.7
0°-60°	5487.5	71.6
0°-90°	7102.7	92.7
90°-120°	372.8	4.9
90°-150°	537.2	7.0
90°-180°	557.0	7.3
0°-180°	7660.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3046	3046	3046	3046	3046	
5°	3078	3026	3042	3021	3017	293
15°	3001	2937	2912	2846	2818	848
25°	2835	2710	2500	2238	2147	1307
35°	2532	2254	1792	1505	1438	1580
45°	2028	1607	1220	1177	1212	1559
55°	1356	1025	953	1108	1177	1205
65°	692	620	776	950	1001	700
75°	269	336	523	641	667	295
85°	54	156	308	394	405	62
90°	3	110	244	294	291	4
95°	3	93	193	206	200	2
105°	1	81	139	135	128	1
115°	1	73	123	122	118	1
125°	1	62	108	114	111	1
135°	3	46	86	101	101	2
145°	3	29	60	78	83	2
155°	3	18	37	49	60	1
165°	3	11	18	24	32	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°	3045.9	3045.9	3045.9	3045.9	3045.9
2.5°	3084.3	3034.0	3049.9	3036.7	3019.4
5°	3077.7	3026.1	3042.0	3020.8	3016.8
7.5°	3065.8	3014.2	3023.4	2998.3	2991.6
10°	3049.9	2995.6	2996.9	2961.2	2951.9
12.5°	3028.7	2969.1	2961.2	2912.2	2899.0
15°	3000.9	2937.4	2912.2	2846.0	2818.2
17.5°	2970.5	2896.3	2844.7	2742.8	2699.1
20°	2929.4	2846.0	2756.0	2601.1	2542.9
22.5°	2888.4	2785.1	2640.9	2434.4	2356.3
25°	2835.4	2709.7	2500.5	2238.4	2147.1
27.5°	2775.9	2621.0	2339.0	2037.2	1939.3
30°	2705.7	2513.8	2161.7	1840.0	1747.3
32.5°	2623.6	2393.3	1975.0	1662.6	1576.6
35°	2532.3	2254.3	1792.3	1505.1	1437.6
37.5°	2427.7	2102.1	1622.9	1378.0	1334.3
40°	2308.6	1936.6	1466.7	1280.1	1265.5
42.5°	2180.2	1775.1	1333.0	1216.5	1229.8
45°	2028.0	1607.0	1220.5	1176.8	1212.5
47.5°	1867.8	1442.9	1129.1	1154.3	1205.9
50°	1712.9	1290.6	1057.7	1139.7	1200.6
52.5°	1521.0	1154.3	1000.7	1126.5	1192.7
55°	1355.5	1024.6	953.1	1108.0	1176.8
57.5°	1164.9	908.1	910.7	1084.1	1153.0
60°	1006.0	802.2	869.7	1051.0	1117.2
62.5°	844.5	706.9	824.7	1007.4	1066.9
65°	692.3	619.5	775.7	950.4	1000.7
67.5°	565.2	540.1	720.1	881.6	924.0
70°	458.0	467.3	659.2	804.8	840.6
72.5°	352.1	399.8	593.0	722.8	753.2
75°	268.7	336.2	522.9	640.7	667.2
77.5°	198.6	280.6	459.3	566.6	589.1
80°	140.3	231.7	399.8	501.7	518.9
82.5°	94.0	190.6	350.8	443.5	459.3
85°	54.3	156.2	308.4	394.5	405.1
87.5°	22.5	129.7	274.0	344.2	349.5
90°	2.6	109.9	243.6	293.9	291.2
92.5°	2.6	99.3	217.1	246.2	239.6
95°	2.6	92.7	193.3	206.5	199.9
97.5°	2.6	88.7	172.1	177.4	170.8
100°	1.3	86.0	157.5	157.5	150.9
102.5°	1.3	83.4	146.9	143.0	137.7
105°	1.3	80.7	139.0	135.0	128.4
107.5°	1.3	79.4	133.7	129.7	123.1
110°	1.3	76.8	129.7	125.8	120.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.3	75.5	127.1	124.4	117.8
115°	1.3	72.8	123.1	121.8	117.8
117.5°	1.3	70.2	120.5	120.5	116.5
120°	1.3	67.5	116.5	119.1	115.2
122.5°	1.3	64.9	112.5	116.5	112.5
125°	1.3	62.2	108.5	113.8	111.2
127.5°	2.6	58.2	103.3	111.2	108.5
130°	1.3	54.3	98.0	108.5	107.2
132.5°	2.6	50.3	92.7	104.6	104.6
135°	2.6	46.3	86.0	100.6	100.6
137.5°	2.6	41.0	79.4	95.3	96.6
140°	2.6	37.1	72.8	90.0	92.7
142.5°	2.6	33.1	66.2	84.7	88.7
145°	2.6	29.1	59.6	78.1	83.4
147.5°	2.6	26.5	52.9	70.2	78.1
150°	2.6	22.5	47.7	63.5	71.5
152.5°	2.6	19.9	42.4	56.9	66.2
155°	2.6	18.5	37.1	49.0	59.6
157.5°	2.6	15.9	31.8	42.4	52.9
160°	2.6	13.2	26.5	37.1	45.0
162.5°	2.6	11.9	22.5	30.4	39.7
165°	2.6	10.6	18.5	23.8	31.8
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)