

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-LD5-78SL-SLN-UNV-L935-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-LD5-78SL-SLN-UNV-L935-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

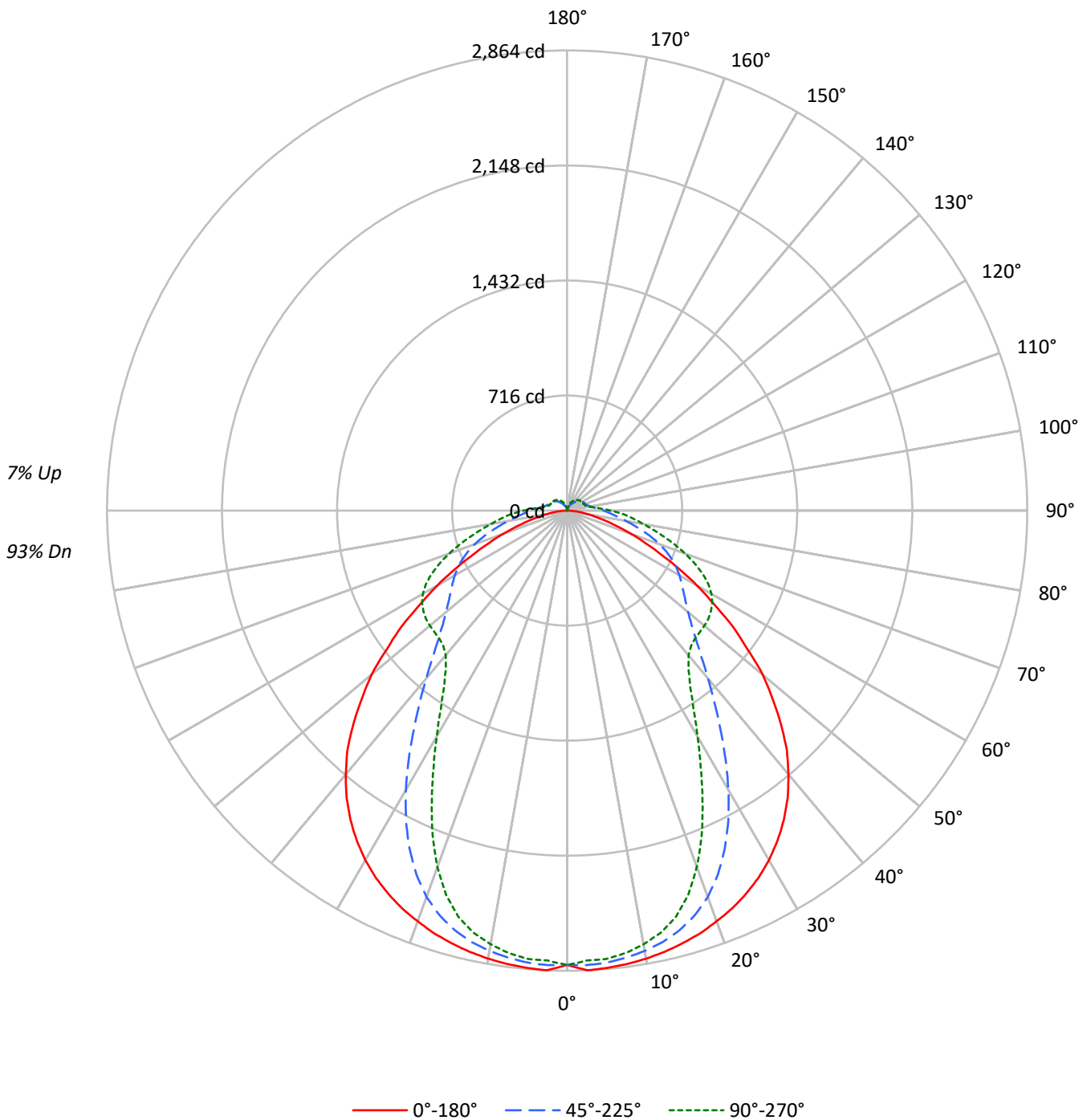
Lumens per Lamp: N/A
Luminaire Lumens: 7112.0 lumens
Efficiency: N/A
Efficacy: 83.7 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 85
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°	22853	22853	22853
5°	23117	22348	21999
10°	23109	21731	21094
15°	23116	21003	19890
20°	23127	19921	17863
25°	23136	18254	15127
30°	23026	16061	12442
35°	22697	13665	10426
40°	22033	11573	9426
45°	20866	10058	9355
50°	19276	9195	9682
55°	16973	8838	10021
60°	14322	8712	10159
65°	11519	8519	9844
70°	9252	8080	9077
75°	6976	7312	8055
80°	5151	6567	7166
85°	3443	6195	6591



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.6	3.8
10°-20°	756.2	10.6
20°-30°	1057.1	14.9
30°-40°	1096.5	15.4
40°-50°	1013.0	14.2
50°-60°	904.4	12.7
60°-70°	733.0	10.3
70°-80°	487.5	6.9
80°-90°	279.2	3.9
90°-100°	154.5	2.2
100°-110°	104.6	1.5
110°-120°	87.1	1.2
120°-130°	70.8	1.0
130°-140°	51.1	0.7
140°-150°	30.8	0.4
150°-160°	14.8	0.2
160°-170°	3.8	0.1
170°-180°	0.0	0.0
0°-30°	2080.9	29.3
0°-40°	3177.5	44.7
0°-60°	5094.9	71.6
0°-90°	6594.6	92.7
90°-120°	346.1	4.9
90°-150°	498.8	7.0
90°-180°	517.0	7.3
0°-180°	7112.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2828	2828	2828	2828	2828	
5°	2858	2810	2824	2805	2801	272
15°	2786	2727	2704	2642	2617	787
25°	2633	2516	2322	2078	1994	1213
35°	2351	2093	1664	1397	1335	1467
45°	1883	1492	1133	1093	1126	1448
55°	1258	951	885	1029	1093	1119
65°	643	575	720	882	929	650
75°	250	312	486	595	619	274
85°	50	145	286	366	376	58
90°	2	102	226	273	270	4
95°	2	86	179	192	186	2
105°	1	75	129	125	119	1
115°	1	68	114	113	109	1
125°	1	58	101	106	103	1
135°	2	43	80	93	93	2
145°	2	27	55	72	77	2
155°	2	17	34	46	55	1
165°	2	10	17	22	30	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°	2828.0	2828.0	2828.0	2828.0	2828.0
2.5°	2863.7	2817.0	2831.7	2819.4	2803.4
5°	2857.5	2809.6	2824.3	2804.7	2801.0
7.5°	2846.5	2798.5	2807.1	2783.8	2777.6
10°	2831.7	2781.3	2782.5	2749.4	2740.8
12.5°	2812.0	2756.7	2749.4	2703.9	2691.6
15°	2786.2	2727.2	2703.9	2642.4	2616.6
17.5°	2758.0	2689.1	2641.2	2546.6	2506.0
20°	2719.9	2642.4	2558.9	2415.1	2361.0
22.5°	2681.8	2585.9	2451.9	2260.2	2187.7
25°	2632.6	2515.8	2321.7	2078.3	1993.5
27.5°	2577.3	2433.5	2171.7	1891.5	1800.5
30°	2512.2	2333.9	2007.0	1708.4	1622.3
32.5°	2436.0	2222.1	1833.7	1543.7	1463.8
35°	2351.1	2093.1	1664.1	1397.4	1334.7
37.5°	2254.1	1951.7	1506.8	1279.4	1238.9
40°	2143.4	1798.1	1361.8	1188.5	1175.0
42.5°	2024.2	1648.1	1237.6	1129.5	1141.8
45°	1882.9	1492.1	1133.2	1092.6	1125.8
47.5°	1734.2	1339.7	1048.4	1071.7	1119.7
50°	1590.4	1198.3	982.0	1058.2	1114.7
52.5°	1412.2	1071.7	929.2	1045.9	1107.4
55°	1258.5	951.3	884.9	1028.7	1092.6
57.5°	1081.6	843.1	845.6	1006.6	1070.5
60°	934.1	744.8	807.5	975.9	1037.3
62.5°	784.1	656.3	765.7	935.3	990.6
65°	642.8	575.2	720.2	882.4	929.2
67.5°	524.8	501.4	668.6	818.5	857.9
70°	425.2	433.9	612.1	747.3	780.4
72.5°	326.9	371.2	550.6	671.1	699.3
75°	249.5	312.2	485.5	594.9	619.4
77.5°	184.4	260.6	426.5	526.0	546.9
80°	130.3	215.1	371.2	465.8	481.8
82.5°	87.3	177.0	325.7	411.7	426.5
85°	50.4	145.0	286.4	366.3	376.1
87.5°	20.9	120.4	254.4	319.5	324.5
90°	2.5	102.0	226.1	272.8	270.4
92.5°	2.5	92.2	201.6	228.6	222.5
95°	2.5	86.0	179.4	191.7	185.6
97.5°	2.5	82.3	159.8	164.7	158.5
100°	1.2	79.9	146.3	146.3	140.1
102.5°	1.2	77.4	136.4	132.7	127.8
105°	1.2	75.0	129.0	125.4	119.2
107.5°	1.2	73.7	124.1	120.4	114.3
110°	1.2	71.3	120.4	116.8	111.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.2	70.1	118.0	115.5	109.4
115°	1.2	67.6	114.3	113.1	109.4
117.5°	1.2	65.1	111.8	111.8	108.2
120°	1.2	62.7	108.2	110.6	106.9
122.5°	1.2	60.2	104.5	108.2	104.5
125°	1.2	57.8	100.8	105.7	103.2
127.5°	2.5	54.1	95.9	103.2	100.8
130°	1.2	50.4	90.9	100.8	99.6
132.5°	2.5	46.7	86.0	97.1	97.1
135°	2.5	43.0	79.9	93.4	93.4
137.5°	2.5	38.1	73.7	88.5	89.7
140°	2.5	34.4	67.6	83.6	86.0
142.5°	2.5	30.7	61.5	78.7	82.3
145°	2.5	27.0	55.3	72.5	77.4
147.5°	2.5	24.6	49.2	65.1	72.5
150°	2.5	20.9	44.2	59.0	66.4
152.5°	2.5	18.4	39.3	52.8	61.5
155°	2.5	17.2	34.4	45.5	55.3
157.5°	2.5	14.7	29.5	39.3	49.2
160°	2.5	12.3	24.6	34.4	41.8
162.5°	2.5	11.1	20.9	28.3	36.9
165°	2.5	9.8	17.2	22.1	29.5
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)