

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-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 (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-L940-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

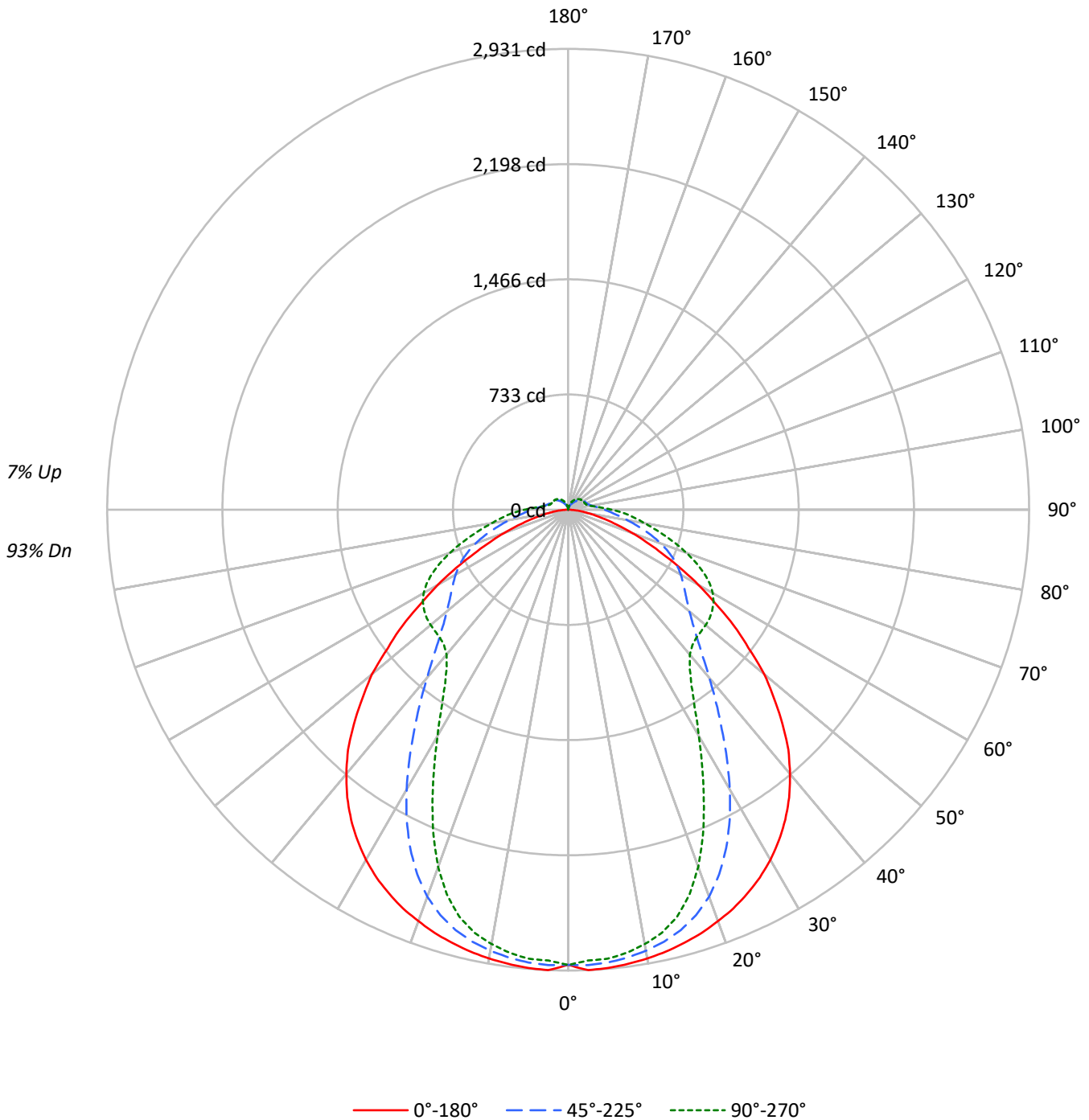
Lumens per Lamp: N/A
Luminaire Lumens: 7280.0 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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	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°	23393	23393	23393
5°	23663	22876	22518
10°	23655	22244	21592
15°	23662	21499	20360
20°	23673	20391	18285
25°	23683	18685	15484
30°	23570	16441	12736
35°	23234	13988	10673
40°	22554	11846	9648
45°	21359	10295	9576
50°	19731	9412	9912
55°	17375	9047	10258
60°	14659	8918	10399
65°	11792	8720	10076
70°	9472	8270	9292
75°	7141	7484	8246
80°	5273	6721	7336
85°	3525	6340	6747



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.9	3.8
10°-20°	774.1	10.6
20°-30°	1082.1	14.9
30°-40°	1122.4	15.4
40°-50°	1036.9	14.2
50°-60°	925.8	12.7
60°-70°	750.3	10.3
70°-80°	499.0	6.9
80°-90°	285.8	3.9
90°-100°	158.1	2.2
100°-110°	107.1	1.5
110°-120°	89.2	1.2
120°-130°	72.5	1.0
130°-140°	52.3	0.7
140°-150°	31.5	0.4
150°-160°	15.1	0.2
160°-170°	3.9	0.1
170°-180°	0.0	0.0
0°-30°	2130.1	29.3
0°-40°	3252.5	44.7
0°-60°	5215.3	71.6
0°-90°	6750.4	92.7
90°-120°	354.3	4.9
90°-150°	510.6	7.0
90°-180°	530.0	7.3
0°-180°	7280.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2895	2895	2895	2895	2895	
5°	2925	2876	2891	2871	2867	278
15°	2852	2792	2768	2705	2678	806
25°	2695	2575	2376	2127	2041	1242
35°	2407	2142	1703	1430	1366	1502
45°	1927	1527	1160	1118	1152	1482
55°	1288	974	906	1053	1118	1145
65°	658	589	737	903	951	665
75°	255	320	497	609	634	280
85°	52	148	293	375	385	59
90°	2	104	232	279	277	4
95°	2	88	184	196	190	2
105°	1	77	132	128	122	1
115°	1	69	117	116	112	1
125°	1	59	103	108	106	1
135°	2	44	82	96	96	2
145°	2	28	57	74	79	2
155°	2	18	35	46	57	1
165°	2	10	18	23	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°	2894.8	2894.8	2894.8	2894.8	2894.8
2.5°	2931.3	2883.5	2898.6	2886.0	2869.7
5°	2925.0	2875.9	2891.0	2870.9	2867.1
7.5°	2913.7	2864.6	2873.4	2849.5	2843.2
10°	2898.6	2847.0	2848.3	2814.3	2805.5
12.5°	2878.5	2821.9	2814.3	2767.8	2755.2
15°	2852.0	2791.7	2767.8	2704.9	2678.4
17.5°	2823.1	2752.7	2703.6	2606.7	2565.2
20°	2784.1	2704.9	2619.3	2472.1	2416.8
22.5°	2745.1	2647.0	2509.8	2313.6	2239.4
25°	2694.8	2575.3	2376.5	2127.4	2040.6
27.5°	2638.2	2491.0	2223.0	1936.2	1843.1
30°	2571.5	2389.1	2054.4	1748.7	1660.7
32.5°	2493.5	2274.6	1877.0	1580.1	1498.4
35°	2406.7	2142.5	1703.4	1430.4	1366.3
37.5°	2307.3	1997.8	1542.4	1309.7	1268.1
40°	2194.1	1840.6	1393.9	1216.6	1202.7
42.5°	2072.0	1687.1	1266.9	1156.2	1168.7
45°	1927.4	1527.3	1159.9	1118.4	1152.4
47.5°	1775.1	1371.3	1073.1	1097.0	1146.1
50°	1627.9	1226.6	1005.2	1083.2	1141.1
52.5°	1445.5	1097.0	951.1	1070.6	1133.5
55°	1288.3	973.7	905.8	1053.0	1118.4
57.5°	1107.1	863.0	865.6	1030.4	1095.8
60°	956.1	762.4	826.6	998.9	1061.8
62.5°	802.6	671.8	783.8	957.4	1014.0
65°	658.0	588.8	737.2	903.3	951.1
67.5°	537.2	513.3	684.4	837.9	878.1
70°	435.3	444.1	626.5	764.9	798.9
72.5°	334.6	379.9	563.6	686.9	715.8
75°	255.4	319.5	496.9	608.9	634.1
77.5°	188.7	266.7	436.6	538.5	559.8
80°	133.4	220.2	379.9	476.8	493.2
82.5°	89.3	181.2	333.4	421.5	436.6
85°	51.6	148.5	293.1	374.9	385.0
87.5°	21.4	123.3	260.4	327.1	332.1
90°	2.5	104.4	231.5	279.3	276.8
92.5°	2.5	94.4	206.3	234.0	227.7
95°	2.5	88.1	183.7	196.3	190.0
97.5°	2.5	84.3	163.5	168.6	162.3
100°	1.3	81.8	149.7	149.7	143.4
102.5°	1.3	79.3	139.6	135.9	130.8
105°	1.3	76.7	132.1	128.3	122.0
107.5°	1.3	75.5	127.1	123.3	117.0
110°	1.3	73.0	123.3	119.5	114.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.3	71.7	120.8	118.3	112.0
115°	1.3	69.2	117.0	115.7	112.0
117.5°	1.3	66.7	114.5	114.5	110.7
120°	1.3	64.2	110.7	113.2	109.5
122.5°	1.3	61.6	106.9	110.7	106.9
125°	1.3	59.1	103.2	108.2	105.7
127.5°	2.5	55.4	98.1	105.7	103.2
130°	1.3	51.6	93.1	103.2	101.9
132.5°	2.5	47.8	88.1	99.4	99.4
135°	2.5	44.0	81.8	95.6	95.6
137.5°	2.5	39.0	75.5	90.6	91.8
140°	2.5	35.2	69.2	85.5	88.1
142.5°	2.5	31.5	62.9	80.5	84.3
145°	2.5	27.7	56.6	74.2	79.3
147.5°	2.5	25.2	50.3	66.7	74.2
150°	2.5	21.4	45.3	60.4	67.9
152.5°	2.5	18.9	40.3	54.1	62.9
155°	2.5	17.6	35.2	46.5	56.6
157.5°	2.5	15.1	30.2	40.3	50.3
160°	2.5	12.6	25.2	35.2	42.8
162.5°	2.5	11.3	21.4	28.9	37.7
165°	2.5	10.1	17.6	22.6	30.2
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)