

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-LD5-71SL-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-LD5-71SL-SLN-UNV-L935-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

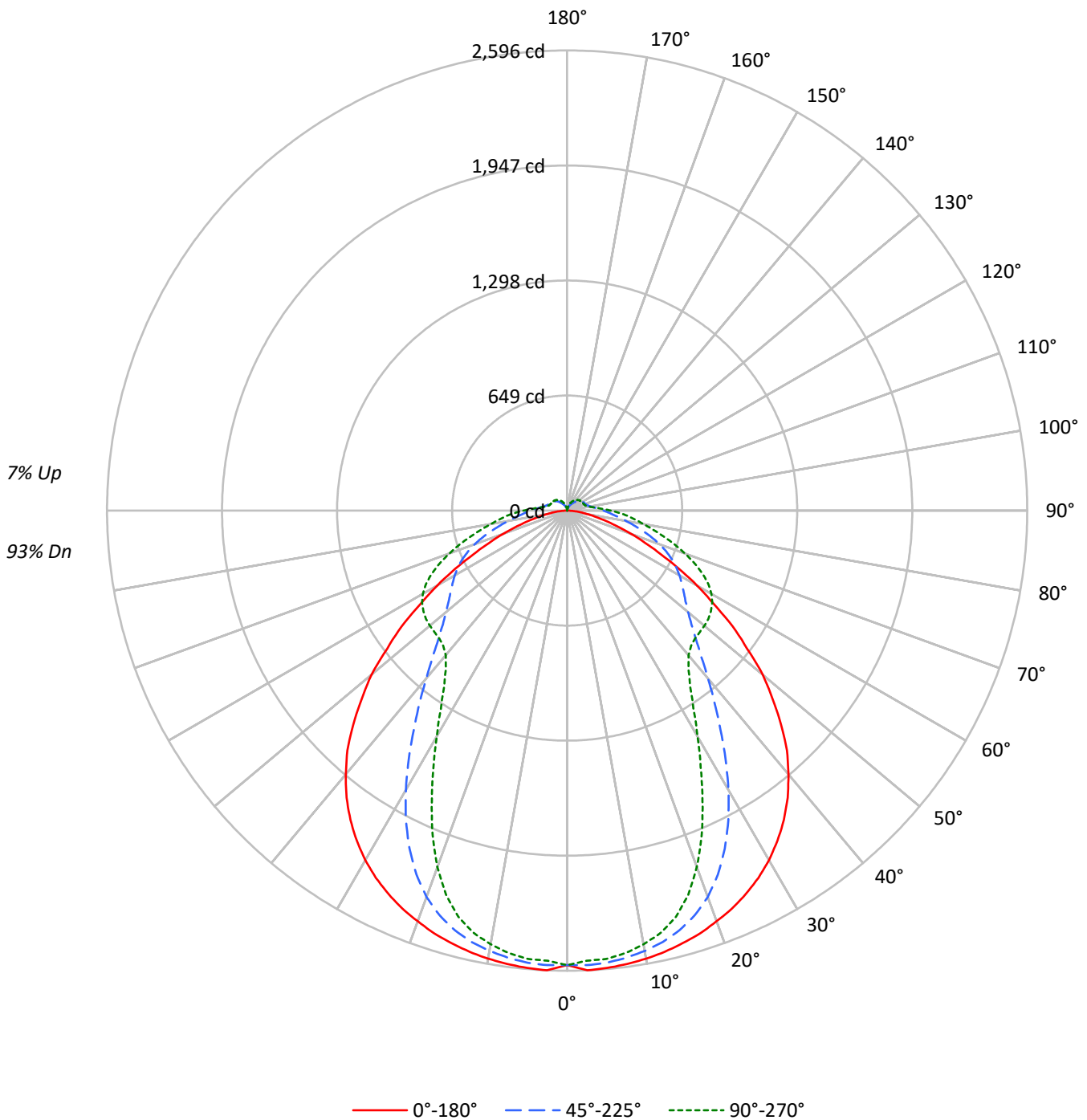
Lumens per Lamp: N/A
Luminaire Lumens: 6447.0 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 70
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°	20716	20716	20716
5°	20955	20258	19942
10°	20948	19699	19121
15°	20955	19039	18031
20°	20964	18058	16193
25°	20973	16547	13713
30°	20873	14560	11278
35°	20575	12388	9452
40°	19973	10491	8544
45°	18915	9118	8480
50°	17474	8335	8777
55°	15387	8012	9085
60°	12982	7898	9209
65°	10442	7723	8923
70°	8388	7323	8229
75°	6325	6628	7302
80°	4669	5953	6495
85°	3122	5615	5974



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.5	3.8
10°-20°	685.5	10.6
20°-30°	958.3	14.9
30°-40°	994.0	15.4
40°-50°	918.3	14.2
50°-60°	819.9	12.7
60°-70°	664.4	10.3
70°-80°	441.9	6.9
80°-90°	253.1	3.9
90°-100°	140.0	2.2
100°-110°	94.8	1.5
110°-120°	78.9	1.2
120°-130°	64.2	1.0
130°-140°	46.3	0.7
140°-150°	27.9	0.4
150°-160°	13.4	0.2
160°-170°	3.5	0.1
170°-180°	0.0	0.0
0°-30°	1886.4	29.3
0°-40°	2880.4	44.7
0°-60°	4618.5	71.6
0°-90°	5978.0	92.7
90°-120°	313.8	4.9
90°-150°	452.1	7.0
90°-180°	469.0	7.3
0°-180°	6447.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2564	2564	2564	2564	2564	
5°	2590	2547	2560	2542	2539	246
15°	2526	2472	2451	2395	2372	714
25°	2386	2281	2105	1884	1807	1100
35°	2131	1897	1508	1267	1210	1330
45°	1707	1352	1027	990	1020	1312
55°	1141	862	802	932	990	1014
65°	583	521	653	800	842	589
75°	226	283	440	539	562	248
85°	46	132	260	332	341	53
90°	2	92	205	247	245	3
95°	2	78	163	174	168	2
105°	1	68	117	114	108	1
115°	1	61	104	102	99	1
125°	1	52	91	96	94	1
135°	2	39	72	85	85	2
145°	2	24	50	66	70	1
155°	2	16	31	41	50	1
165°	2	9	16	20	27	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°	2563.6	2563.6	2563.6	2563.6	2563.6
2.5°	2595.9	2553.6	2566.9	2555.8	2541.3
5°	2590.3	2546.9	2560.2	2542.4	2539.1
7.5°	2580.3	2536.8	2544.6	2523.5	2517.9
10°	2566.9	2521.2	2522.4	2492.3	2484.5
12.5°	2549.1	2499.0	2492.3	2451.1	2439.9
15°	2525.7	2472.2	2451.1	2395.4	2372.0
17.5°	2500.1	2437.7	2394.2	2308.5	2271.7
20°	2465.5	2395.4	2319.6	2189.2	2140.2
22.5°	2431.0	2344.1	2222.7	2048.9	1983.1
25°	2386.4	2280.6	2104.6	1884.0	1807.1
27.5°	2336.3	2206.0	1968.6	1714.6	1632.2
30°	2277.3	2115.7	1819.4	1548.6	1470.6
32.5°	2208.2	2014.3	1662.3	1399.3	1326.9
35°	2131.3	1897.3	1508.5	1266.8	1209.9
37.5°	2043.3	1769.2	1365.9	1159.8	1123.0
40°	1943.0	1630.0	1234.4	1077.4	1065.1
42.5°	1835.0	1494.0	1121.9	1023.9	1035.0
45°	1706.8	1352.5	1027.2	990.5	1020.5
47.5°	1572.0	1214.4	950.3	971.5	1015.0
50°	1441.7	1086.3	890.2	959.3	1010.5
52.5°	1280.1	971.5	842.3	948.1	1003.8
55°	1140.9	862.3	802.2	932.5	990.5
57.5°	980.4	764.3	766.5	912.5	970.4
60°	846.7	675.2	732.0	884.6	940.3
62.5°	710.8	594.9	694.1	847.8	898.0
65°	582.7	521.4	652.9	799.9	842.3
67.5°	475.7	454.6	606.1	742.0	777.7
70°	385.5	393.3	554.8	677.4	707.5
72.5°	296.4	336.5	499.1	608.3	633.9
75°	226.2	283.0	440.1	539.2	561.5
77.5°	167.1	236.2	386.6	476.8	495.8
80°	118.1	195.0	336.5	422.3	436.7
82.5°	79.1	160.4	295.2	373.2	386.6
85°	45.7	131.5	259.6	332.0	340.9
87.5°	18.9	109.2	230.6	289.7	294.1
90°	2.2	92.5	205.0	247.3	245.1
92.5°	2.2	83.6	182.7	207.2	201.7
95°	2.2	78.0	162.7	173.8	168.2
97.5°	2.2	74.6	144.8	149.3	143.7
100°	1.1	72.4	132.6	132.6	127.0
102.5°	1.1	70.2	123.7	120.3	115.9
105°	1.1	68.0	117.0	113.6	108.1
107.5°	1.1	66.8	112.5	109.2	103.6
110°	1.1	64.6	109.2	105.8	101.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.1	63.5	107.0	104.7	99.2
115°	1.1	61.3	103.6	102.5	99.2
117.5°	1.1	59.0	101.4	101.4	98.0
120°	1.1	56.8	98.0	100.3	96.9
122.5°	1.1	54.6	94.7	98.0	94.7
125°	1.1	52.4	91.4	95.8	93.6
127.5°	2.2	49.0	86.9	93.6	91.4
130°	1.1	45.7	82.4	91.4	90.2
132.5°	2.2	42.3	78.0	88.0	88.0
135°	2.2	39.0	72.4	84.7	84.7
137.5°	2.2	34.5	66.8	80.2	81.3
140°	2.2	31.2	61.3	75.8	78.0
142.5°	2.2	27.9	55.7	71.3	74.6
145°	2.2	24.5	50.1	65.7	70.2
147.5°	2.2	22.3	44.6	59.0	65.7
150°	2.2	18.9	40.1	53.5	60.2
152.5°	2.2	16.7	35.7	47.9	55.7
155°	2.2	15.6	31.2	41.2	50.1
157.5°	2.2	13.4	26.7	35.7	44.6
160°	2.2	11.1	22.3	31.2	37.9
162.5°	2.2	10.0	18.9	25.6	33.4
165°	2.2	8.9	15.6	20.1	26.7
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)