

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-LD5-73SL-SLC-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 (P27404)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-73SL-SLC-UNV-L930-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

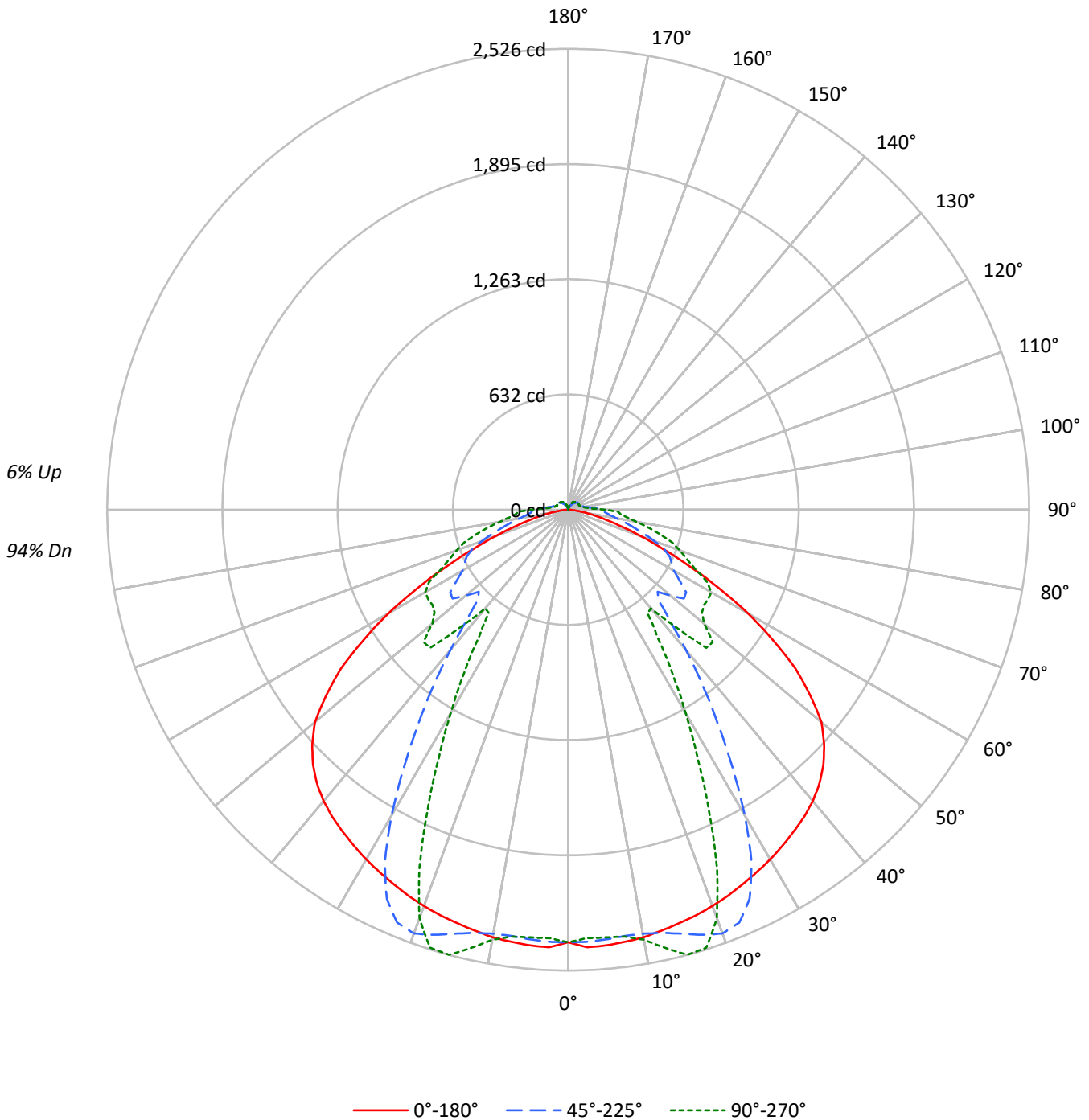
Lumens per Lamp: N/A
Luminaire Lumens: 6090.9 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 70
Input Voltage (V): NR
Input Current (A_{in}): 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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94
1	107	102	98	94	104	99	95	92	94	91	88	89	87	84	85	83	81	78
2	98	90	83	77	95	87	81	76	83	78	73	79	74	71	75	71	68	66
3	89	79	71	65	87	77	70	64	73	67	62	70	65	60	67	62	59	56
4	82	71	62	56	80	69	61	55	66	59	53	63	57	52	60	55	51	49
5	76	64	55	48	74	62	54	48	59	52	47	57	51	46	54	49	45	43
6	70	58	49	43	68	56	48	42	54	47	41	52	45	41	50	44	40	38
7	66	52	44	38	64	51	43	38	49	42	37	47	41	36	46	40	36	34
8	61	48	40	34	59	47	39	34	45	38	33	44	37	33	42	37	32	30
9	57	44	36	31	56	44	36	31	42	35	30	41	34	30	39	34	29	28
10	54	41	33	28	52	40	33	28	39	32	28	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19162	19162	19162
5°	19394	18713	18483
10°	19419	18428	18419
15°	19472	18687	19198
20°	19653	19244	18020
25°	19898	18494	13875
30°	20290	15490	9869
35°	20793	11731	6683
40°	21429	8528	5659
45°	21915	6187	8896
50°	21946	6850	8443
55°	20512	7883	8337
60°	17477	7214	8862
65°	13148	7275	8106
70°	9228	6622	7545
75°	6045	5549	6770
80°	3858	4753	5636
85°	2077	4519	5060



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.6	3.7
10°-20°	681.3	11.2
20°-30°	989.6	16.2
30°-40°	945.5	15.5
40°-50°	864.9	14.2
50°-60°	798.6	13.1
60°-70°	634.3	10.4
70°-80°	391.5	6.4
80°-90°	213.2	3.5
90°-100°	107.8	1.8
100°-110°	67.7	1.1
110°-120°	57.4	0.9
120°-130°	46.8	0.8
130°-140°	33.6	0.6
140°-150°	20.7	0.3
150°-160°	9.8	0.2
160°-170°	2.5	0.0
170°-180°	0.0	0.0
0°-30°	1896.5	31.1
0°-40°	2842.0	46.7
0°-60°	4505.5	74.0
0°-90°	5744.6	94.3
90°-120°	232.8	3.8
90°-150°	334.0	5.5
90°-180°	346.0	5.7
0°-180°	6090.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2371	2371	2371	2371	2371	
5°	2397	2361	2365	2352	2353	228
15°	2347	2316	2406	2495	2526	664
25°	2264	2308	2352	1991	1828	1046
35°	2154	2119	1429	984	856	1351
45°	1978	1379	697	889	1071	1520
55°	1521	708	789	849	909	1340
65°	734	459	615	747	765	742
75°	216	245	368	488	521	245
85°	30	104	209	284	289	39
90°	1	78	187	222	205	2
95°	0	72	129	114	108	0
105°	0	65	80	72	71	0
115°	0	54	77	68	65	0
125°	1	43	68	66	63	1
135°	1	30	55	60	58	1
145°	1	19	38	48	51	1
155°	2	12	23	30	37	1
165°	2	6	12	15	20	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°	2371.2	2371.2	2371.2	2371.2	2371.2
2.5°	2400.6	2365.9	2370.1	2362.8	2350.2
5°	2397.4	2360.7	2364.9	2352.3	2353.3
7.5°	2389.0	2351.2	2356.5	2354.4	2359.6
10°	2379.6	2339.7	2359.6	2377.5	2393.2
12.5°	2362.8	2327.1	2375.4	2427.8	2460.4
15°	2347.0	2315.5	2405.8	2495.0	2525.5
17.5°	2331.3	2311.3	2443.6	2521.3	2517.1
20°	2311.3	2309.2	2471.9	2445.7	2381.7
22.5°	2289.3	2310.3	2449.9	2257.8	2131.8
25°	2264.1	2308.2	2352.3	1991.2	1828.5
27.5°	2238.9	2298.7	2174.9	1699.4	1538.8
30°	2213.7	2273.6	1935.6	1432.8	1286.9
32.5°	2184.3	2219.0	1675.2	1196.6	1062.2
35°	2153.9	2119.3	1428.6	983.5	855.5
37.5°	2122.4	1975.4	1207.1	796.7	714.8
40°	2084.6	1794.9	1003.5	683.3	705.4
42.5°	2037.4	1591.3	824.0	716.9	870.2
45°	1977.5	1379.2	697.0	889.1	1070.6
47.5°	1902.0	1175.6	665.5	1018.2	1074.8
50°	1810.7	988.8	731.6	976.2	972.0
52.5°	1672.1	833.4	798.8	890.1	923.7
55°	1520.9	707.5	789.3	849.2	909.0
57.5°	1329.9	622.4	724.3	840.8	910.0
60°	1139.9	565.8	668.6	839.7	904.8
62.5°	930.0	514.3	640.3	819.8	858.6
65°	733.7	458.7	615.1	747.4	765.2
67.5°	562.6	402.0	571.0	666.5	702.2
70°	424.1	346.4	501.7	604.6	648.7
72.5°	305.4	293.9	430.4	550.0	596.2
75°	216.2	244.6	368.4	488.1	520.6
77.5°	149.1	199.4	315.9	419.9	446.1
80°	97.6	159.5	268.7	361.1	378.9
82.5°	58.8	128.1	233.0	315.9	325.4
85°	30.4	103.9	208.9	284.5	288.7
87.5°	9.4	87.1	195.2	269.8	275.0
90°	1.0	77.7	186.8	221.5	204.7
92.5°	0.0	73.5	161.6	151.2	135.4
95°	0.0	72.4	129.1	114.4	108.1
97.5°	0.0	70.3	106.0	95.5	92.4
100°	0.0	68.2	91.3	84.0	82.9
102.5°	0.0	67.2	82.9	76.6	75.6
105°	0.0	65.1	79.8	72.4	71.4
107.5°	0.0	61.9	77.7	70.3	68.2
110°	0.0	58.8	77.7	69.3	66.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	55.6	77.7	68.2	65.1
115°	0.0	53.5	76.6	68.2	65.1
117.5°	1.0	51.4	75.6	68.2	65.1
120°	0.0	49.3	73.5	68.2	64.0
122.5°	1.0	46.2	71.4	67.2	64.0
125°	1.0	43.0	68.2	66.1	63.0
127.5°	1.0	39.9	65.1	64.0	60.9
130°	1.0	36.7	61.9	63.0	59.8
132.5°	1.0	33.6	57.7	60.9	58.8
135°	1.0	30.4	54.6	59.8	57.7
137.5°	1.0	27.3	50.4	56.7	56.7
140°	1.0	24.1	46.2	54.6	55.6
142.5°	1.0	22.0	42.0	52.5	53.5
145°	1.0	18.9	37.8	48.3	51.4
147.5°	1.0	16.8	33.6	44.1	48.3
150°	1.0	14.7	29.4	39.9	44.1
152.5°	1.0	12.6	26.2	34.6	40.9
155°	2.1	11.5	23.1	30.4	36.7
157.5°	2.1	9.4	18.9	26.2	31.5
160°	2.1	8.4	16.8	22.0	28.3
162.5°	2.1	7.3	13.6	18.9	24.1
165°	2.1	6.3	11.5	14.7	19.9
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)