

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-LD5-74HL-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-LD5-74HL-SLN-UNV-L930-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

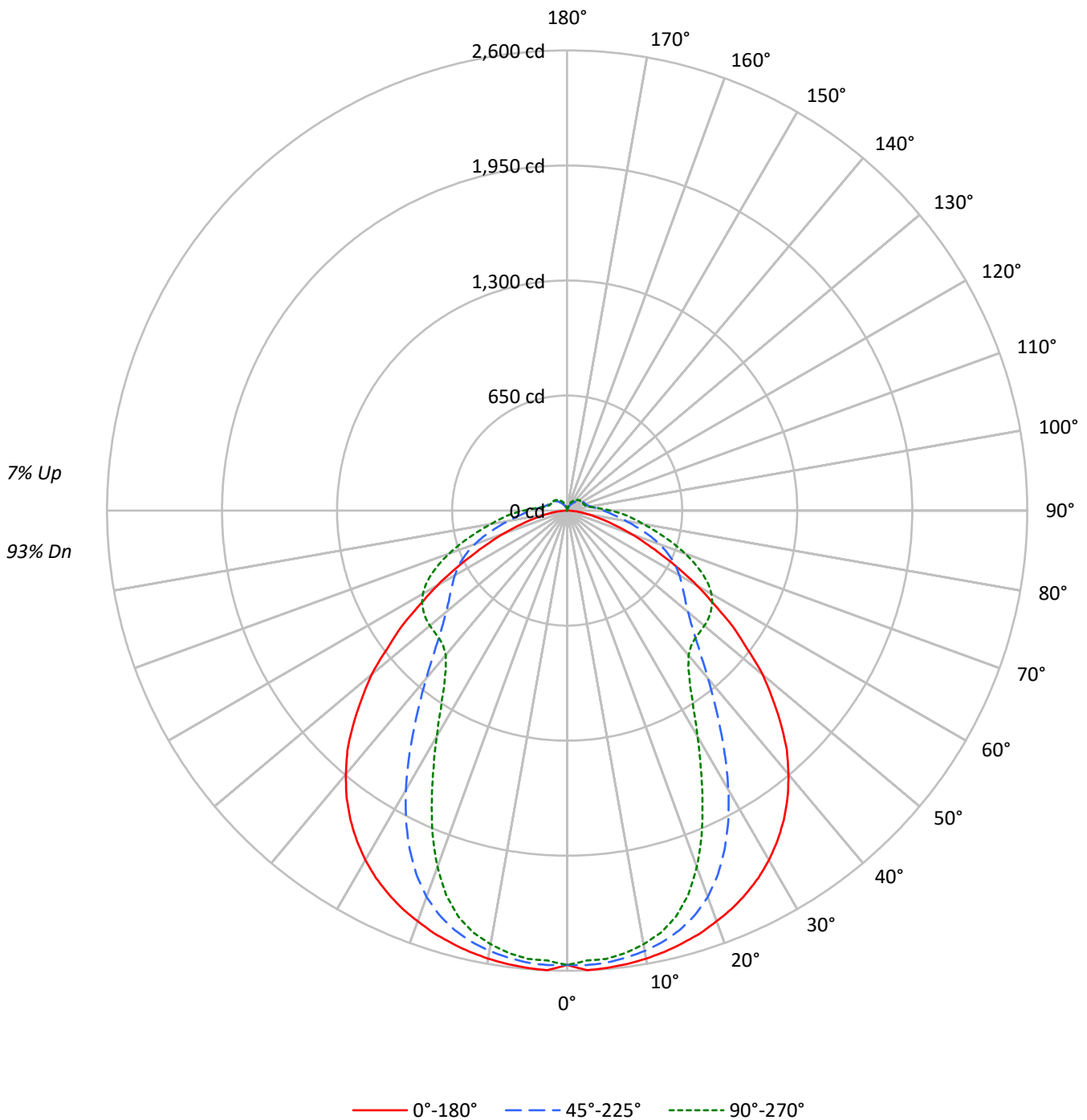
Lumens per Lamp: N/A
Luminaire Lumens: 6456.0 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 62
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°	20746	20746	20746
5°	20984	20287	19969
10°	20977	19727	19148
15°	20984	19066	18056
20°	20994	18083	16215
25°	21002	16570	13732
30°	20902	14580	11294
35°	20604	12405	9465
40°	20001	10506	8556
45°	18941	9131	8492
50°	17498	8347	8789
55°	15407	8023	9097
60°	13000	7908	9222
65°	10457	7733	8935
70°	8399	7334	8241
75°	6333	6637	7312
80°	4676	5960	6504
85°	3122	5624	5983



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.9	3.8
10°-20°	686.5	10.6
20°-30°	959.6	14.9
30°-40°	995.4	15.4
40°-50°	919.6	14.2
50°-60°	821.0	12.7
60°-70°	665.4	10.3
70°-80°	442.5	6.9
80°-90°	253.4	3.9
90°-100°	140.2	2.2
100°-110°	94.9	1.5
110°-120°	79.0	1.2
120°-130°	64.3	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°	1889.0	29.3
0°-40°	2884.4	44.7
0°-60°	4625.0	71.6
0°-90°	5986.3	92.7
90°-120°	314.2	4.9
90°-150°	452.7	7.0
90°-180°	470.0	7.3
0°-180°	6456.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2567	2567	2567	2567	2567	
5°	2594	2550	2564	2546	2543	247
15°	2529	2476	2454	2399	2375	715
25°	2390	2284	2108	1887	1810	1101
35°	2134	1900	1511	1268	1212	1332
45°	1709	1354	1029	992	1022	1314
55°	1142	864	803	934	992	1016
65°	584	522	654	801	843	590
75°	226	283	441	540	562	248
85°	46	132	260	332	341	53
90°	2	93	205	248	245	4
95°	2	78	163	174	168	2
105°	1	68	117	114	108	1
115°	1	61	104	103	99	1
125°	1	52	92	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°	2567.2	2567.2	2567.2	2567.2	2567.2
2.5°	2599.5	2557.1	2570.5	2559.4	2544.9
5°	2593.9	2550.4	2563.8	2546.0	2542.6
7.5°	2583.9	2540.4	2548.2	2527.0	2521.4
10°	2570.5	2524.8	2525.9	2495.8	2488.0
12.5°	2552.7	2502.5	2495.8	2454.5	2443.3
15°	2529.2	2475.7	2454.5	2398.7	2375.3
17.5°	2503.6	2441.1	2397.6	2311.7	2274.9
20°	2469.0	2398.7	2322.8	2192.3	2143.2
22.5°	2434.4	2347.4	2225.8	2051.7	1985.9
25°	2389.8	2283.8	2107.5	1886.6	1809.6
27.5°	2339.6	2209.0	1971.4	1717.0	1634.5
30°	2280.4	2118.7	1821.9	1550.8	1472.7
32.5°	2211.3	2017.1	1664.6	1401.3	1328.8
35°	2134.3	1900.0	1510.6	1268.5	1211.6
37.5°	2046.1	1771.7	1367.8	1161.4	1124.6
40°	1945.7	1632.2	1236.2	1078.9	1066.6
42.5°	1837.5	1496.1	1123.5	1025.3	1036.5
45°	1709.2	1354.4	1028.7	991.8	1022.0
47.5°	1574.2	1216.1	951.7	972.9	1016.4
50°	1443.7	1087.8	891.4	960.6	1011.9
52.5°	1281.9	972.9	843.4	949.4	1005.2
55°	1142.4	863.5	803.3	933.8	991.8
57.5°	981.8	765.4	767.6	913.7	971.8
60°	847.9	676.1	733.0	885.8	941.6
62.5°	711.8	595.8	695.1	849.0	899.2
65°	583.5	522.1	653.8	801.1	843.4
67.5°	476.4	455.2	606.9	743.0	778.7
70°	386.0	393.8	555.6	678.3	708.5
72.5°	296.8	336.9	499.8	609.2	634.8
75°	226.5	283.4	440.7	540.0	562.3
77.5°	167.4	236.5	387.1	477.5	496.5
80°	118.3	195.2	336.9	422.8	437.3
82.5°	79.2	160.7	295.7	373.8	387.1
85°	45.7	131.6	260.0	332.5	341.4
87.5°	19.0	109.3	230.9	290.1	294.5
90°	2.2	92.6	205.3	247.7	245.4
92.5°	2.2	83.7	183.0	207.5	201.9
95°	2.2	78.1	162.9	174.0	168.5
97.5°	2.2	74.8	145.0	149.5	143.9
100°	1.1	72.5	132.8	132.8	127.2
102.5°	1.1	70.3	123.8	120.5	116.0
105°	1.1	68.1	117.1	113.8	108.2
107.5°	1.1	66.9	112.7	109.3	103.8
110°	1.1	64.7	109.3	106.0	101.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.1	63.6	107.1	104.9	99.3
115°	1.1	61.4	103.8	102.6	99.3
117.5°	1.1	59.1	101.5	101.5	98.2
120°	1.1	56.9	98.2	100.4	97.1
122.5°	1.1	54.7	94.8	98.2	94.8
125°	1.1	52.4	91.5	95.9	93.7
127.5°	2.2	49.1	87.0	93.7	91.5
130°	1.1	45.7	82.6	91.5	90.4
132.5°	2.2	42.4	78.1	88.1	88.1
135°	2.2	39.0	72.5	84.8	84.8
137.5°	2.2	34.6	66.9	80.3	81.4
140°	2.2	31.2	61.4	75.9	78.1
142.5°	2.2	27.9	55.8	71.4	74.8
145°	2.2	24.5	50.2	65.8	70.3
147.5°	2.2	22.3	44.6	59.1	65.8
150°	2.2	19.0	40.2	53.6	60.2
152.5°	2.2	16.7	35.7	48.0	55.8
155°	2.2	15.6	31.2	41.3	50.2
157.5°	2.2	13.4	26.8	35.7	44.6
160°	2.2	11.2	22.3	31.2	37.9
162.5°	2.2	10.0	19.0	25.7	33.5
165°	2.2	8.9	15.6	20.1	26.8
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)