

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-L830-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-L830-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

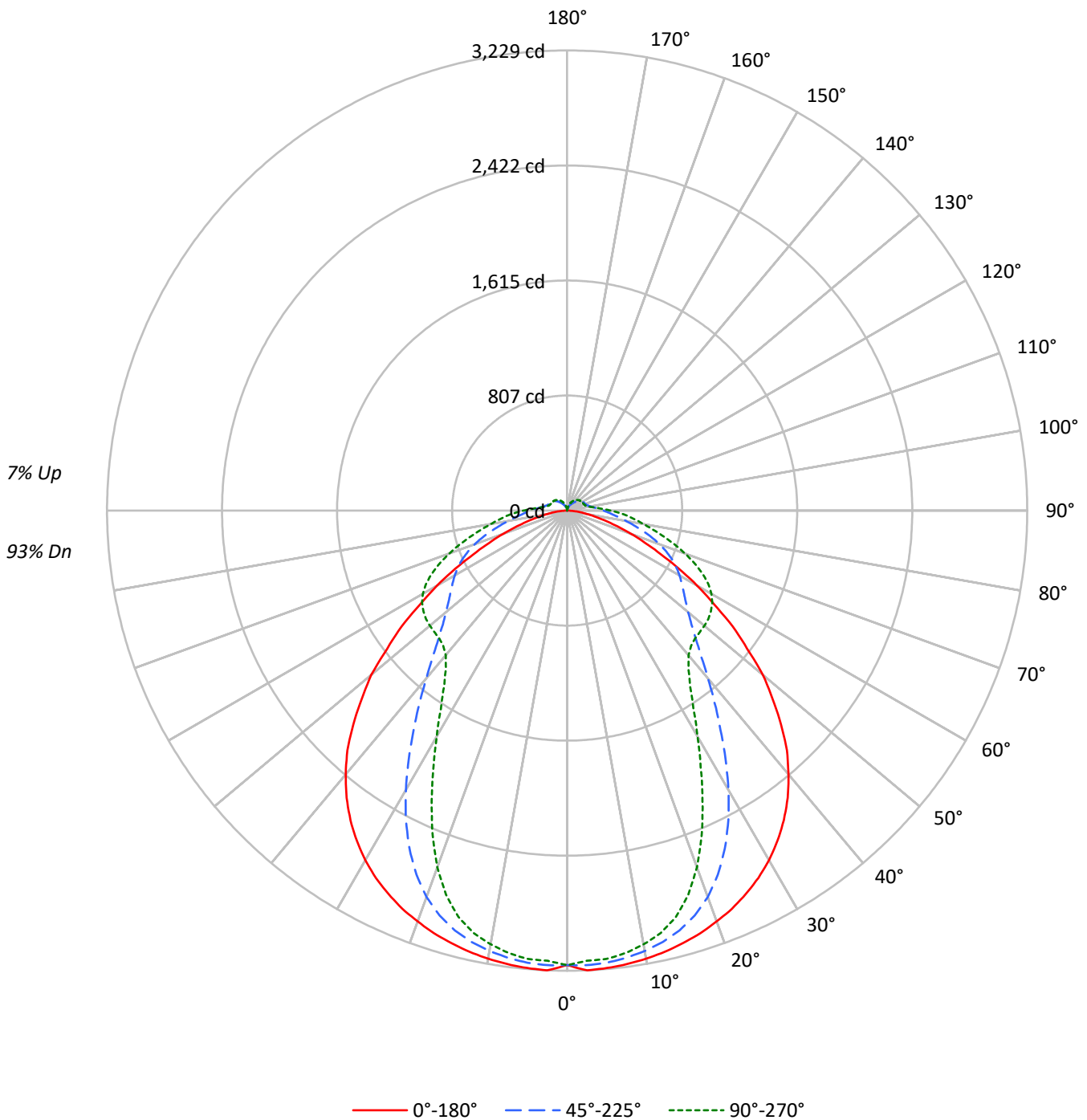
Lumens per Lamp: N/A
Luminaire Lumens: 8020.0 lumens
Efficiency: N/A
Efficacy: 129.4 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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°	25771	25771	25771
5°	26068	25202	24807
10°	26059	24505	23787
15°	26068	23684	22430
20°	26079	22463	20144
25°	26090	20584	17058
30°	25966	18112	14031
35°	25595	15410	11758
40°	24847	13050	10629
45°	23530	11342	10549
50°	21737	10369	10919
55°	19141	9967	11301
60°	16149	9824	11456
65°	12990	9607	11100
70°	10433	9111	10237
75°	7866	8246	9084
80°	5807	7405	8081
85°	3880	6985	7433



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.7	3.8
10°-20°	852.8	10.6
20°-30°	1192.1	14.9
30°-40°	1236.5	15.4
40°-50°	1142.3	14.2
50°-60°	1019.9	12.7
60°-70°	826.5	10.3
70°-80°	549.8	6.9
80°-90°	314.8	3.9
90°-100°	174.2	2.2
100°-110°	117.9	1.5
110°-120°	98.2	1.2
120°-130°	79.8	1.0
130°-140°	57.6	0.7
140°-150°	34.7	0.4
150°-160°	16.7	0.2
160°-170°	4.3	0.1
170°-180°	0.0	0.0
0°-30°	2346.6	29.3
0°-40°	3583.1	44.7
0°-60°	5745.4	71.6
0°-90°	7436.5	92.7
90°-120°	390.3	4.9
90°-150°	562.5	7.0
90°-180°	583.0	7.3
0°-180°	8020.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3189	3189	3189	3189	3189	
5°	3222	3168	3185	3163	3159	307
15°	3142	3075	3049	2980	2951	888
25°	2969	2837	2618	2344	2248	1368
35°	2651	2360	1877	1576	1505	1654
45°	2123	1682	1278	1232	1270	1633
55°	1419	1073	998	1160	1232	1262
65°	725	649	812	995	1048	733
75°	281	352	548	671	698	308
85°	57	164	323	413	424	65
90°	3	115	255	308	305	4
95°	3	97	202	216	209	2
105°	1	84	146	141	134	1
115°	1	76	129	128	123	1
125°	1	65	114	119	116	2
135°	3	48	90	105	105	2
145°	3	30	62	82	87	2
155°	3	19	39	51	62	1
165°	3	11	19	25	33	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-74HL-SLN-UNV-L830-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3189.1	3189.1	3189.1	3189.1	3189.1
2.5°	3229.3	3176.6	3193.2	3179.4	3161.4
5°	3222.3	3168.3	3184.9	3162.7	3158.6
7.5°	3209.9	3155.8	3165.5	3139.2	3132.2
10°	3193.2	3136.4	3137.8	3100.4	3090.7
12.5°	3171.1	3108.7	3100.4	3049.1	3035.2
15°	3142.0	3075.4	3049.1	2979.8	2950.7
17.5°	3110.1	3032.5	2978.4	2871.7	2826.0
20°	3067.1	2979.8	2885.5	2723.4	2662.4
22.5°	3024.1	2916.0	2765.0	2548.8	2467.0
25°	2968.7	2837.0	2618.1	2343.6	2248.0
27.5°	2906.3	2744.2	2449.0	2133.0	2030.4
30°	2832.9	2631.9	2263.3	1926.5	1829.5
32.5°	2747.0	2505.8	2067.8	1740.8	1650.7
35°	2651.3	2360.3	1876.6	1575.8	1505.1
37.5°	2541.8	2200.9	1699.2	1442.8	1397.0
40°	2417.1	2027.6	1535.6	1340.2	1325.0
42.5°	2282.7	1858.6	1395.7	1273.7	1287.5
45°	2123.3	1682.5	1277.8	1232.1	1269.5
47.5°	1955.6	1510.7	1182.2	1208.5	1262.6
50°	1793.4	1351.3	1107.4	1193.3	1257.1
52.5°	1592.5	1208.5	1047.8	1179.4	1248.7
55°	1419.2	1072.7	997.9	1160.0	1232.1
57.5°	1219.6	950.8	953.5	1135.1	1207.2
60°	1053.3	839.9	910.6	1100.4	1169.7
62.5°	884.2	740.1	863.4	1054.7	1117.1
65°	724.9	648.6	812.2	995.1	1047.8
67.5°	591.8	565.5	754.0	923.0	967.4
70°	479.5	489.2	690.2	842.7	880.1
72.5°	368.7	418.6	620.9	756.7	788.6
75°	281.3	352.0	547.5	670.8	698.5
77.5°	207.9	293.8	480.9	593.2	616.7
80°	146.9	242.5	418.6	525.3	543.3
82.5°	98.4	199.6	367.3	464.3	480.9
85°	56.8	163.5	322.9	413.0	424.1
87.5°	23.6	135.8	286.9	360.3	365.9
90°	2.8	115.0	255.0	307.7	304.9
92.5°	2.8	103.9	227.3	257.8	250.9
95°	2.8	97.0	202.3	216.2	209.3
97.5°	2.8	92.9	180.2	185.7	178.8
100°	1.4	90.1	164.9	164.9	158.0
102.5°	1.4	87.3	153.8	149.7	144.1
105°	1.4	84.5	145.5	141.4	134.4
107.5°	1.4	83.2	140.0	135.8	128.9
110°	1.4	80.4	135.8	131.7	126.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.4	79.0	133.1	130.3	123.3
115°	1.4	76.2	128.9	127.5	123.3
117.5°	1.4	73.5	126.1	126.1	122.0
120°	1.4	70.7	122.0	124.7	120.6
122.5°	1.4	67.9	117.8	122.0	117.8
125°	1.4	65.1	113.6	119.2	116.4
127.5°	2.8	61.0	108.1	116.4	113.6
130°	1.4	56.8	102.6	113.6	112.3
132.5°	2.8	52.7	97.0	109.5	109.5
135°	2.8	48.5	90.1	105.3	105.3
137.5°	2.8	43.0	83.2	99.8	101.2
140°	2.8	38.8	76.2	94.2	97.0
142.5°	2.8	34.6	69.3	88.7	92.9
145°	2.8	30.5	62.4	81.8	87.3
147.5°	2.8	27.7	55.4	73.5	81.8
150°	2.8	23.6	49.9	66.5	74.8
152.5°	2.8	20.8	44.4	59.6	69.3
155°	2.8	19.4	38.8	51.3	62.4
157.5°	2.8	16.6	33.3	44.4	55.4
160°	2.8	13.9	27.7	38.8	47.1
162.5°	2.8	12.5	23.6	31.9	41.6
165°	2.8	11.1	19.4	24.9	33.3
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)