

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-L850-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-L850-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

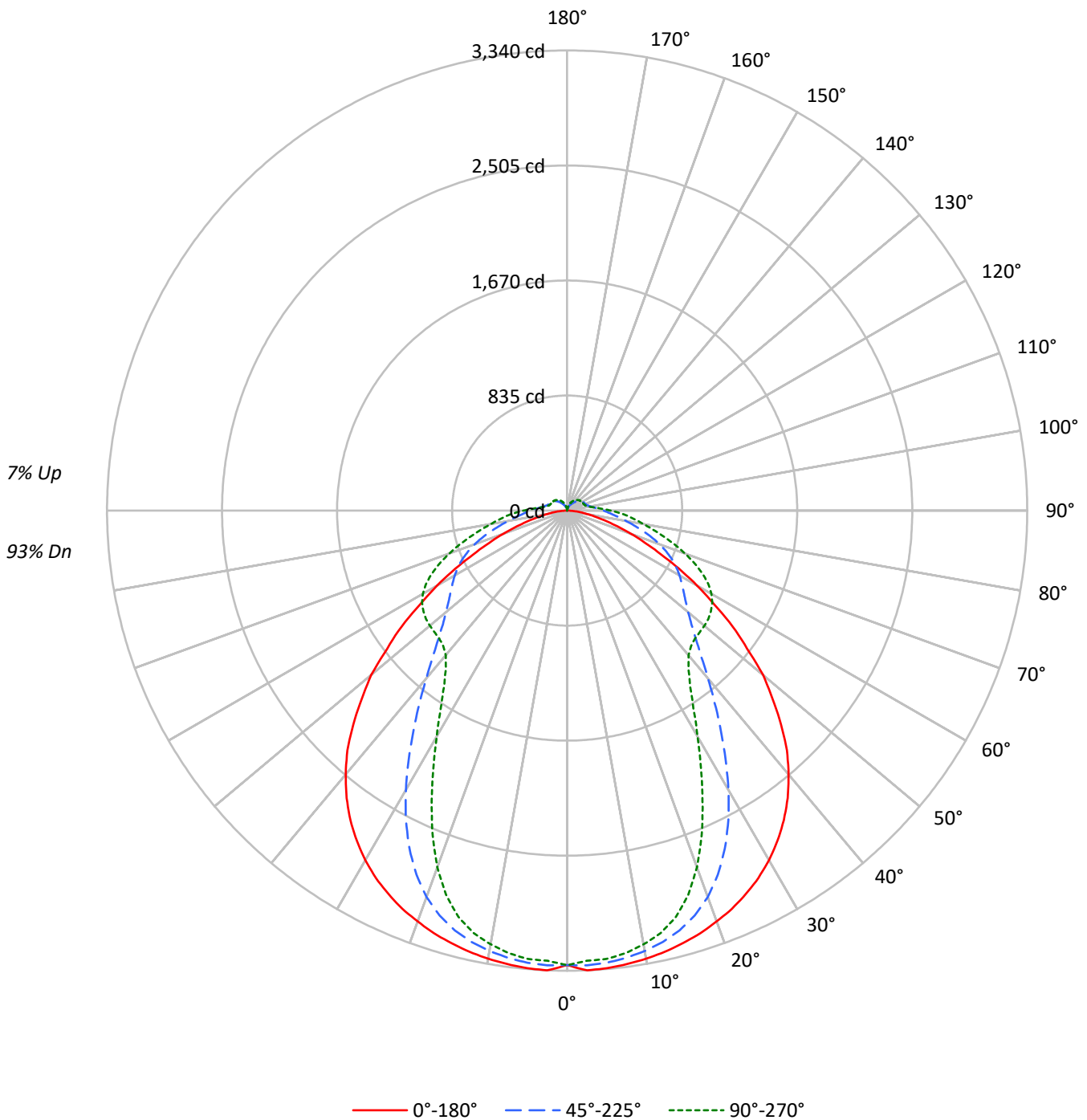
Lumens per Lamp: N/A
Luminaire Lumens: 8296.0 lumens
Efficiency: N/A
Efficacy: 133.8 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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



TEST NUMBER: P#
CATALOG NUMBER: 4SNLED-LD5-74HL-SLN-UNV-L850-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-74HL-SLN-UNV-L850-CD1-U

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°	26658	26658	26658
5°	26965	26069	25661
10°	26956	25349	24605
15°	26965	24499	23201
20°	26977	23237	20837
25°	26988	21293	17646
30°	26859	18735	14513
35°	26477	15941	12162
40°	25702	13500	10995
45°	24339	11732	10912
50°	22485	10726	11295
55°	19800	10309	11690
60°	16706	10162	11851
65°	13437	9937	11481
70°	10793	9425	10589
75°	8137	8529	9397
80°	6009	7660	8359
85°	4017	7225	7688



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-74HL-SLN-UNV-L850-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.1	3.8
10°-20°	882.1	10.6
20°-30°	1233.1	14.9
30°-40°	1279.1	15.4
40°-50°	1181.7	14.2
50°-60°	1055.0	12.7
60°-70°	855.0	10.3
70°-80°	568.7	6.9
80°-90°	325.7	3.9
90°-100°	180.2	2.2
100°-110°	122.0	1.5
110°-120°	101.6	1.2
120°-130°	82.6	1.0
130°-140°	59.6	0.7
140°-150°	35.9	0.4
150°-160°	17.3	0.2
160°-170°	4.5	0.1
170°-180°	0.0	0.0
0°-30°	2427.4	29.3
0°-40°	3706.5	44.7
0°-60°	5943.1	71.6
0°-90°	7692.5	92.7
90°-120°	403.8	4.9
90°-150°	581.8	7.0
90°-180°	604.0	7.3
0°-180°	8296.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3299	3299	3299	3299	3299	
5°	3333	3277	3294	3272	3267	317
15°	3250	3181	3154	3082	3052	918
25°	3071	2935	2708	2424	2325	1415
35°	2743	2442	1941	1630	1557	1711
45°	2196	1740	1322	1274	1313	1689
55°	1468	1110	1032	1200	1274	1305
65°	750	671	840	1029	1084	758
75°	291	364	566	694	723	319
85°	59	169	334	427	439	68
90°	3	119	264	318	315	5
95°	3	100	209	224	216	2
105°	1	88	150	146	139	1
115°	1	79	133	132	128	1
125°	1	67	118	123	120	2
135°	3	50	93	109	109	2
145°	3	32	64	85	90	2
155°	3	20	40	53	64	1
165°	3	12	20	26	34	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-74HL-SLN-UNV-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3298.8	3298.8	3298.8	3298.8	3298.8
2.5°	3340.4	3285.9	3303.1	3288.8	3270.1
5°	3333.2	3277.3	3294.5	3271.6	3267.3
7.5°	3320.3	3264.4	3274.4	3247.2	3240.0
10°	3303.1	3244.3	3245.8	3207.1	3197.0
12.5°	3280.2	3215.7	3207.1	3154.0	3139.7
15°	3250.1	3181.3	3154.0	3082.3	3052.2
17.5°	3217.1	3136.8	3080.9	2970.5	2923.2
20°	3172.7	3082.3	2984.9	2817.1	2754.0
22.5°	3128.2	3016.4	2860.1	2636.5	2551.9
25°	3070.9	2934.7	2708.2	2424.3	2325.4
27.5°	3006.4	2838.6	2533.3	2206.4	2100.3
30°	2930.4	2722.5	2341.1	1992.8	1892.4
32.5°	2841.5	2592.0	2139.0	1800.7	1707.5
35°	2742.6	2441.5	1941.2	1630.1	1556.9
37.5°	2629.3	2276.6	1757.7	1492.4	1445.1
40°	2500.3	2097.4	1588.5	1386.3	1370.6
42.5°	2361.2	1922.5	1443.7	1317.5	1331.9
45°	2196.3	1740.4	1321.8	1274.5	1313.2
47.5°	2022.9	1562.7	1222.9	1250.1	1306.1
50°	1855.1	1397.8	1145.5	1234.4	1300.3
52.5°	1647.3	1250.1	1083.8	1220.0	1291.7
55°	1468.1	1109.6	1032.2	1200.0	1274.5
57.5°	1261.6	983.5	986.3	1174.2	1248.7
60°	1089.6	868.8	941.9	1138.3	1210.0
62.5°	914.7	765.6	893.2	1091.0	1155.5
65°	749.8	670.9	840.1	1029.4	1083.8
67.5°	612.2	584.9	779.9	954.8	1000.7
70°	496.0	506.1	714.0	871.7	910.4
72.5°	381.4	433.0	642.3	782.8	815.7
75°	291.0	364.1	566.3	693.9	722.6
77.5°	215.0	303.9	497.5	613.6	638.0
80°	152.0	250.9	433.0	543.4	562.0
82.5°	101.8	206.4	379.9	480.3	497.5
85°	58.8	169.2	334.0	427.2	438.7
87.5°	24.4	140.5	296.8	372.7	378.5
90°	2.9	119.0	263.8	318.3	315.4
92.5°	2.9	107.5	235.1	266.7	259.5
95°	2.9	100.4	209.3	223.6	216.5
97.5°	2.9	96.1	186.4	192.1	184.9
100°	1.4	93.2	170.6	170.6	163.4
102.5°	1.4	90.3	159.1	154.8	149.1
105°	1.4	87.5	150.5	146.2	139.1
107.5°	1.4	86.0	144.8	140.5	133.3
110°	1.4	83.2	140.5	136.2	130.5



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-74HL-SLN-UNV-L850-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.4	81.7	137.6	134.8	127.6
115°	1.4	78.9	133.3	131.9	127.6
117.5°	1.4	76.0	130.5	130.5	126.2
120°	1.4	73.1	126.2	129.0	124.7
122.5°	1.4	70.2	121.9	126.2	121.9
125°	1.4	67.4	117.6	123.3	120.4
127.5°	2.9	63.1	111.8	120.4	117.6
130°	1.4	58.8	106.1	117.6	116.1
132.5°	2.9	54.5	100.4	113.3	113.3
135°	2.9	50.2	93.2	109.0	109.0
137.5°	2.9	44.4	86.0	103.2	104.7
140°	2.9	40.1	78.9	97.5	100.4
142.5°	2.9	35.8	71.7	91.8	96.1
145°	2.9	31.5	64.5	84.6	90.3
147.5°	2.9	28.7	57.3	76.0	84.6
150°	2.9	24.4	51.6	68.8	77.4
152.5°	2.9	21.5	45.9	61.6	71.7
155°	2.9	20.1	40.1	53.0	64.5
157.5°	2.9	17.2	34.4	45.9	57.3
160°	2.9	14.3	28.7	40.1	48.7
162.5°	2.9	12.9	24.4	33.0	43.0
165°	2.9	11.5	20.1	25.8	34.4
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)