

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-LD5-85SL-SLC-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 (P27404)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-85SL-SLC-UNV-L830-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

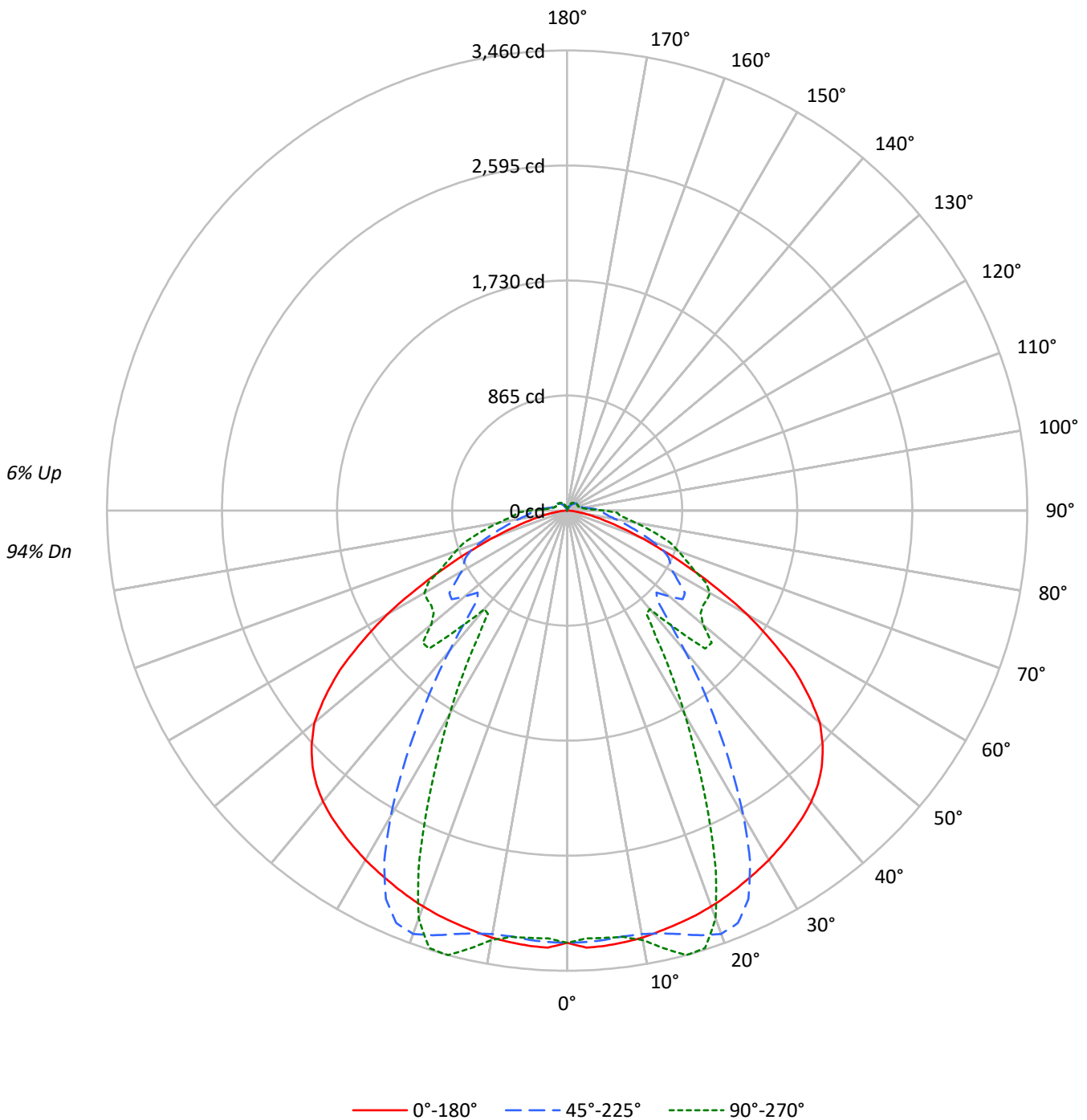
Lumens per Lamp: N/A
Luminaire Lumens: 8346.0 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 85
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	63	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°	26255	26255	26255
5°	26575	25641	25326
10°	26608	25250	25238
15°	26681	25606	26304
20°	26929	26368	24691
25°	27264	25341	19011
30°	27803	21224	13523
35°	28491	16075	9157
40°	29362	11686	7753
45°	30029	8477	12190
50°	30071	9387	11568
55°	28107	10803	11424
60°	23947	9885	12143
65°	18015	9969	11107
70°	12644	9075	10338
75°	8285	7603	9277
80°	5289	6514	7722
85°	2849	6191	6931



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.1	3.7
10°-20°	933.5	11.2
20°-30°	1356.0	16.2
30°-40°	1295.6	15.5
40°-50°	1185.1	14.2
50°-60°	1094.3	13.1
60°-70°	869.2	10.4
70°-80°	536.5	6.4
80°-90°	292.1	3.5
90°-100°	147.7	1.8
100°-110°	92.8	1.1
110°-120°	78.6	0.9
120°-130°	64.2	0.8
130°-140°	46.0	0.6
140°-150°	28.4	0.3
150°-160°	13.5	0.2
160°-170°	3.5	0.0
170°-180°	0.0	0.0
0°-30°	2598.6	31.1
0°-40°	3894.2	46.7
0°-60°	6173.6	74.0
0°-90°	7871.4	94.3
90°-120°	319.0	3.8
90°-150°	457.7	5.5
90°-180°	475.0	5.7
0°-180°	8346.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3249	3249	3249	3249	3249	
5°	3285	3235	3240	3223	3225	313
15°	3216	3173	3296	3419	3460	910
25°	3102	3163	3223	2728	2505	1434
35°	2951	2904	1958	1348	1172	1851
45°	2710	1890	955	1218	1467	2082
55°	2084	969	1082	1164	1246	1835
65°	1005	628	843	1024	1048	1017
75°	296	335	505	669	713	336
85°	42	142	286	390	396	53
90°	1	106	256	304	280	2
95°	0	99	177	157	148	0
105°	0	89	109	99	98	0
115°	0	73	105	94	89	1
125°	1	59	94	91	86	1
135°	1	42	75	82	79	1
145°	1	26	52	66	70	1
155°	3	16	32	42	50	1
165°	3	9	16	20	27	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-85SL-SLC-UNV-L830-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3249.0	3249.0	3249.0	3249.0	3249.0
2.5°	3289.3	3241.8	3247.6	3237.5	3220.3
5°	3285.0	3234.6	3240.4	3223.1	3224.6
7.5°	3273.5	3221.7	3228.9	3226.0	3233.2
10°	3260.5	3205.9	3233.2	3257.6	3279.2
12.5°	3237.5	3188.6	3254.8	3326.7	3371.3
15°	3215.9	3172.8	3296.5	3418.7	3460.4
17.5°	3194.4	3167.0	3348.3	3454.7	3448.9
20°	3167.0	3164.2	3387.1	3351.1	3263.4
22.5°	3136.8	3165.6	3356.9	3093.7	2921.1
25°	3102.3	3162.7	3223.1	2728.4	2505.4
27.5°	3067.8	3149.8	2980.1	2328.5	2108.5
30°	3033.3	3115.3	2652.1	1963.2	1763.3
32.5°	2993.0	3040.5	2295.5	1639.6	1455.5
35°	2951.3	2903.8	1957.5	1347.6	1172.2
37.5°	2908.2	2706.8	1654.0	1091.6	979.5
40°	2856.4	2459.4	1375.0	936.3	966.5
42.5°	2791.7	2180.4	1129.0	982.3	1192.3
45°	2709.7	1889.9	955.0	1218.2	1467.0
47.5°	2606.1	1610.8	911.9	1395.1	1472.8
50°	2481.0	1354.8	1002.5	1337.6	1331.8
52.5°	2291.1	1142.0	1094.5	1219.6	1265.7
55°	2084.0	969.4	1081.6	1163.5	1245.5
57.5°	1822.3	852.9	992.4	1152.0	1247.0
60°	1561.9	775.2	916.2	1150.6	1239.8
62.5°	1274.3	704.7	877.3	1123.3	1176.5
65°	1005.3	628.5	842.8	1024.0	1048.5
67.5°	770.9	550.9	782.4	913.3	962.2
70°	581.1	474.6	687.5	828.4	888.8
72.5°	418.5	402.7	589.7	753.6	816.9
75°	296.3	335.1	504.8	668.8	713.4
77.5°	204.2	273.3	432.9	575.3	611.3
80°	133.8	218.6	368.2	494.8	519.2
82.5°	80.5	175.5	319.3	432.9	445.9
85°	41.7	142.4	286.2	389.8	395.5
87.5°	12.9	119.4	267.5	369.6	376.8
90°	1.4	106.4	256.0	303.5	280.5
92.5°	0.0	100.7	221.5	207.1	185.5
95°	0.0	99.2	176.9	156.8	148.1
97.5°	0.0	96.4	145.3	130.9	126.6
100°	0.0	93.5	125.1	115.1	113.6
102.5°	0.0	92.0	113.6	105.0	103.6
105°	0.0	89.2	109.3	99.2	97.8
107.5°	0.0	84.9	106.4	96.4	93.5
110°	0.0	80.5	106.4	94.9	90.6



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-85SL-SLC-UNV-L830-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	76.2	106.4	93.5	89.2
115°	0.0	73.4	105.0	93.5	89.2
117.5°	1.4	70.5	103.6	93.5	89.2
120°	0.0	67.6	100.7	93.5	87.7
122.5°	1.4	63.3	97.8	92.0	87.7
125°	1.4	59.0	93.5	90.6	86.3
127.5°	1.4	54.7	89.2	87.7	83.4
130°	1.4	50.3	84.9	86.3	82.0
132.5°	1.4	46.0	79.1	83.4	80.5
135°	1.4	41.7	74.8	82.0	79.1
137.5°	1.4	37.4	69.0	77.7	77.7
140°	1.4	33.1	63.3	74.8	76.2
142.5°	1.4	30.2	57.5	71.9	73.4
145°	1.4	25.9	51.8	66.2	70.5
147.5°	1.4	23.0	46.0	60.4	66.2
150°	1.4	20.1	40.3	54.7	60.4
152.5°	1.4	17.3	36.0	47.5	56.1
155°	2.9	15.8	31.6	41.7	50.3
157.5°	2.9	12.9	25.9	36.0	43.1
160°	2.9	11.5	23.0	30.2	38.8
162.5°	2.9	10.1	18.7	25.9	33.1
165°	2.9	8.6	15.8	20.1	27.3
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)