

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-L935-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-L935-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

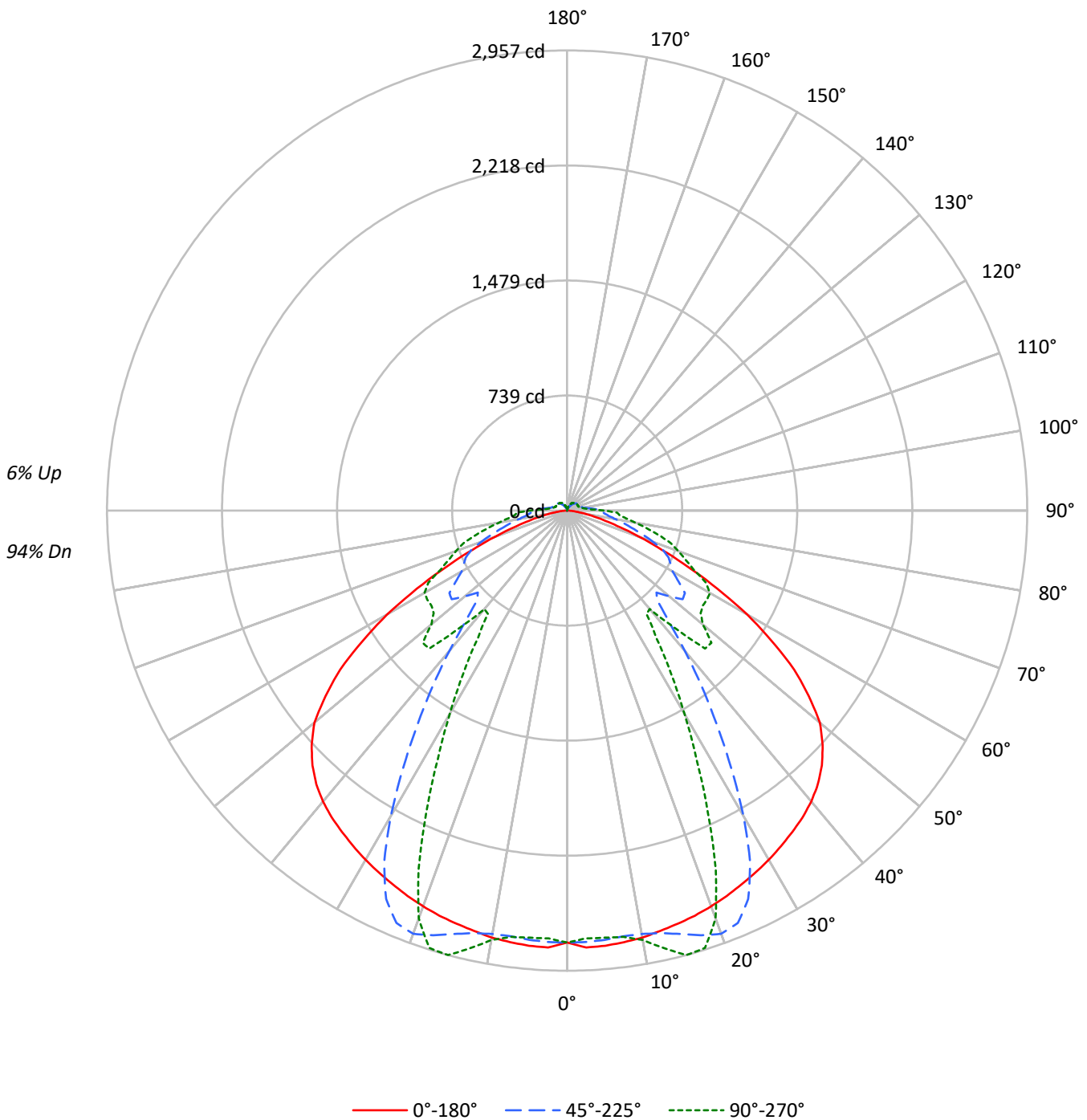
Lumens per Lamp: N/A
Luminaire Lumens: 7131.0 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 85
Input Voltage (V): NR
Input Current (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-LD5-85SL-SLC-UNV-L935-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-85SL-SLC-UNV-L935-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	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°	22433	22433	22433
5°	22706	21908	21638
10°	22735	21574	21563
15°	22797	21878	22475
20°	23009	22530	21096
25°	23295	21652	16244
30°	23755	18134	11554
35°	24344	13734	7824
40°	25087	9984	6625
45°	25657	7243	10416
50°	25693	8020	9884
55°	24015	9230	9761
60°	20462	8446	10375
65°	15394	8517	9491
70°	10803	7754	8833
75°	7077	6496	7926
80°	4518	5565	6598
85°	2432	5289	5922



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-85SL-SLC-UNV-L935-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.1	3.7
10°-20°	797.6	11.2
20°-30°	1158.6	16.2
30°-40°	1107.0	15.5
40°-50°	1012.6	14.2
50°-60°	935.0	13.1
60°-70°	742.7	10.4
70°-80°	458.4	6.4
80°-90°	249.6	3.5
90°-100°	126.1	1.8
100°-110°	79.3	1.1
110°-120°	67.2	0.9
120°-130°	54.8	0.8
130°-140°	39.3	0.6
140°-150°	24.3	0.3
150°-160°	11.5	0.2
160°-170°	3.0	0.0
170°-180°	0.0	0.0
0°-30°	2220.3	31.1
0°-40°	3327.3	46.7
0°-60°	5274.8	74.0
0°-90°	6725.4	94.3
90°-120°	272.6	3.8
90°-150°	391.0	5.5
90°-180°	406.0	5.7
0°-180°	7131.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2776	2776	2776	2776	2776	
5°	2807	2764	2769	2754	2755	267
15°	2748	2711	2817	2921	2957	778
25°	2651	2702	2754	2331	2141	1225
35°	2522	2481	1672	1152	1002	1581
45°	2315	1615	816	1041	1254	1779
55°	1781	828	924	994	1064	1568
65°	859	537	720	875	896	869
75°	253	286	431	571	610	287
85°	36	122	244	333	338	45
90°	1	91	219	259	240	2
95°	0	85	151	134	127	0
105°	0	76	93	85	84	0
115°	0	63	90	80	76	1
125°	1	50	80	77	74	1
135°	1	36	64	70	68	1
145°	1	22	44	56	60	1
155°	2	14	27	36	43	1
165°	2	7	14	17	23	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-85SL-SLC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2776.0	2776.0	2776.0	2776.0	2776.0
2.5°	2810.4	2769.9	2774.8	2766.2	2751.5
5°	2806.8	2763.7	2768.7	2753.9	2755.1
7.5°	2796.9	2752.7	2758.8	2756.4	2762.5
10°	2785.9	2739.2	2762.5	2783.4	2801.8
12.5°	2766.2	2724.4	2780.9	2842.4	2880.5
15°	2747.8	2710.9	2816.6	2921.0	2956.7
17.5°	2729.3	2706.0	2860.8	2951.8	2946.8
20°	2706.0	2703.5	2894.0	2863.3	2788.3
22.5°	2680.2	2704.8	2868.2	2643.3	2495.8
25°	2650.7	2702.3	2753.9	2331.2	2140.7
27.5°	2621.2	2691.2	2546.2	1989.5	1801.5
30°	2591.7	2661.7	2266.0	1677.4	1506.6
32.5°	2557.3	2597.8	1961.3	1400.9	1243.6
35°	2521.7	2481.1	1672.5	1151.5	1001.5
37.5°	2484.8	2312.7	1413.2	932.7	836.9
40°	2440.5	2101.4	1174.8	800.0	825.8
42.5°	2385.2	1863.0	964.7	839.3	1018.7
45°	2315.2	1614.7	816.0	1040.9	1253.5
47.5°	2226.7	1376.3	779.1	1192.0	1258.4
50°	2119.8	1157.6	856.5	1142.9	1137.9
52.5°	1957.6	975.7	935.2	1042.1	1081.4
55°	1780.6	828.3	924.1	994.2	1064.2
57.5°	1557.0	728.7	847.9	984.3	1065.4
60°	1334.6	662.4	782.8	983.1	1059.3
62.5°	1088.8	602.1	749.6	959.8	1005.2
65°	859.0	537.0	720.1	875.0	895.9
67.5°	658.7	470.7	668.5	780.3	822.1
70°	496.5	405.5	587.4	707.8	759.4
72.5°	357.6	344.1	503.8	643.9	698.0
75°	253.1	286.3	431.3	571.4	609.5
77.5°	174.5	233.5	369.9	491.6	522.3
80°	114.3	186.8	314.6	422.7	443.6
82.5°	68.8	149.9	272.8	369.9	381.0
85°	35.6	121.7	244.5	333.0	337.9
87.5°	11.1	102.0	228.6	315.8	322.0
90°	1.2	90.9	218.7	259.3	239.6
92.5°	0.0	86.0	189.2	177.0	158.5
95°	0.0	84.8	151.2	133.9	126.6
97.5°	0.0	82.3	124.1	111.8	108.1
100°	0.0	79.9	106.9	98.3	97.1
102.5°	0.0	78.6	97.1	89.7	88.5
105°	0.0	76.2	93.4	84.8	83.6
107.5°	0.0	72.5	90.9	82.3	79.9
110°	0.0	68.8	90.9	81.1	77.4



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-85SL-SLC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	65.1	90.9	79.9	76.2
115°	0.0	62.7	89.7	79.9	76.2
117.5°	1.2	60.2	88.5	79.9	76.2
120°	0.0	57.8	86.0	79.9	75.0
122.5°	1.2	54.1	83.6	78.6	75.0
125°	1.2	50.4	79.9	77.4	73.7
127.5°	1.2	46.7	76.2	75.0	71.3
130°	1.2	43.0	72.5	73.7	70.0
132.5°	1.2	39.3	67.6	71.3	68.8
135°	1.2	35.6	63.9	70.0	67.6
137.5°	1.2	32.0	59.0	66.4	66.4
140°	1.2	28.3	54.1	63.9	65.1
142.5°	1.2	25.8	49.2	61.4	62.7
145°	1.2	22.1	44.2	56.5	60.2
147.5°	1.2	19.7	39.3	51.6	56.5
150°	1.2	17.2	34.4	46.7	51.6
152.5°	1.2	14.7	30.7	40.6	47.9
155°	2.5	13.5	27.0	35.6	43.0
157.5°	2.5	11.1	22.1	30.7	36.9
160°	2.5	9.8	19.7	25.8	33.2
162.5°	2.5	8.6	16.0	22.1	28.3
165°	2.5	7.4	13.5	17.2	23.3
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)