

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: **8SNLED-LD5-75SL-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: 8SNLED-LD5-75SL-SLC-UNV-L830-CD1-U  
Description: 8FT LINEAR SNLED LED FIXTURE  
CLEAR SQUARE LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

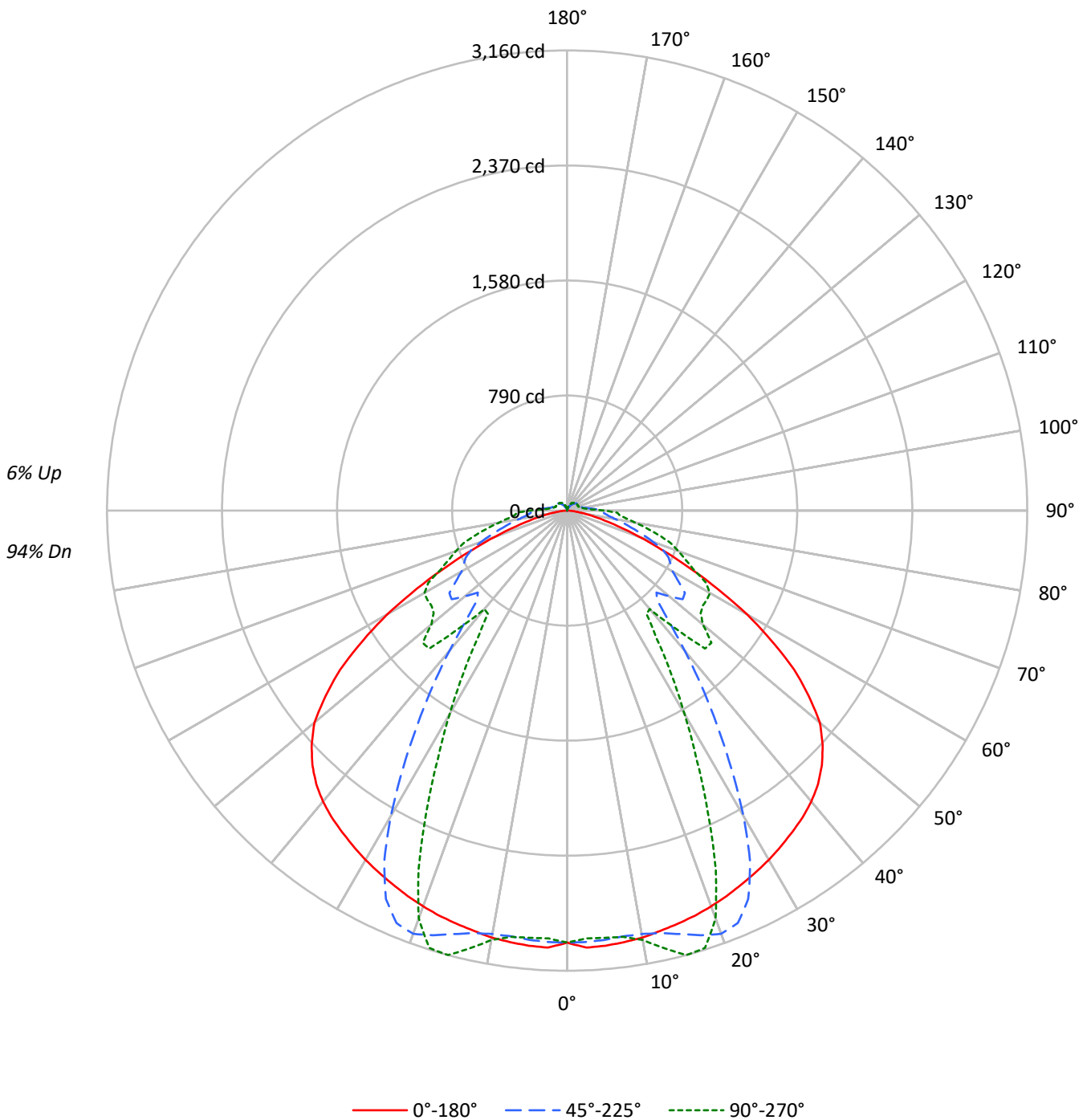
Lumens per Lamp: N/A  
Luminaire Lumens: 7621.0 lumens  
Efficiency: N/A  
Efficacy: 138.6 lumens/watt  
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 55  
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	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°	11987	11987	11987
5°	12150	11718	11563
10°	12182	11550	11523
15°	12233	11723	12010
20°	12364	12083	11273
25°	12538	11623	8680
30°	12807	9744	6174
35°	13149	7386	4181
40°	13579	5375	3540
45°	13921	3903	5566
50°	13980	4328	5282
55°	13113	4988	5216
60°	11222	4571	5544
65°	8492	4619	5071
70°	6010	4215	4720
75°	3990	3542	4236
80°	2610	3046	3526
85°	1499	2913	3165



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	282.2	3.7
10°-20°	852.4	11.2
20°-30°	1238.2	16.2
30°-40°	1183.1	15.5
40°-50°	1082.2	14.2
50°-60°	999.2	13.1
60°-70°	793.7	10.4
70°-80°	489.9	6.4
80°-90°	266.8	3.5
90°-100°	134.8	1.8
100°-110°	84.7	1.1
110°-120°	71.8	0.9
120°-130°	58.6	0.8
130°-140°	42.0	0.6
140°-150°	25.9	0.3
150°-160°	12.3	0.2
160°-170°	3.2	0.0
170°-180°	0.0	0.0
0°-30°	2372.8	31.1
0°-40°	3555.9	46.7
0°-60°	5637.3	74.0
0°-90°	7187.6	94.3
90°-120°	291.3	3.8
90°-150°	417.9	5.5
90°-180°	433.0	5.7
0°-180°	7621.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2967	2967	2967	2967	2967	
5°	3000	2954	2959	2943	2944	285
15°	2937	2897	3010	3122	3160	831
25°	2833	2888	2943	2491	2288	1309
35°	2695	2652	1787	1231	1070	1690
45°	2474	1726	872	1112	1340	1902
55°	1903	885	988	1062	1137	1676
65°	918	574	770	935	957	928
75°	270	306	461	611	651	307
85°	38	130	261	356	361	49
90°	1	97	234	277	256	2
95°	0	91	162	143	135	0
105°	0	81	100	91	89	0
115°	0	67	96	85	81	1
125°	1	54	85	83	79	1
135°	1	38	68	75	72	1
145°	1	24	47	60	64	1
155°	3	14	29	38	46	1
165°	3	8	14	18	25	1
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°	2966.8	2966.8	2966.8	2966.8	2966.8
2.5°	3003.6	2960.2	2965.5	2956.3	2940.5
5°	2999.6	2953.6	2958.9	2943.1	2944.5
7.5°	2989.1	2941.8	2948.4	2945.8	2952.3
10°	2977.3	2927.4	2952.3	2974.7	2994.4
12.5°	2956.3	2911.6	2972.0	3037.7	3078.4
15°	2936.6	2897.2	3010.1	3121.8	3159.8
17.5°	2916.9	2891.9	3057.4	3154.6	3149.3
20°	2891.9	2889.3	3092.9	3060.0	2979.9
22.5°	2864.3	2890.6	3065.3	2824.9	2667.3
25°	2832.8	2888.0	2943.1	2491.4	2287.8
27.5°	2801.3	2876.2	2721.2	2126.3	1925.3
30°	2769.8	2844.6	2421.8	1792.7	1610.1
32.5°	2733.0	2776.4	2096.1	1497.2	1329.1
35°	2694.9	2651.6	1787.4	1230.6	1070.4
37.5°	2655.5	2471.7	1510.3	996.8	894.4
40°	2608.2	2245.8	1255.5	855.0	882.5
42.5°	2549.1	1991.0	1031.0	897.0	1088.7
45°	2474.3	1725.7	872.0	1112.4	1339.6
47.5°	2379.7	1470.9	832.6	1273.9	1344.8
50°	2265.5	1237.1	915.4	1221.4	1216.1
52.5°	2092.1	1042.8	999.4	1113.7	1155.7
55°	1903.0	885.2	987.6	1062.5	1137.3
57.5°	1664.0	778.8	906.2	1052.0	1138.6
60°	1426.3	707.9	836.6	1050.7	1132.1
62.5°	1163.6	643.5	801.1	1025.7	1074.3
65°	918.0	573.9	769.6	935.1	957.4
67.5°	703.9	503.0	714.4	834.0	878.6
70°	530.6	433.4	627.8	756.5	811.6
72.5°	382.2	367.7	538.5	688.2	746.0
75°	270.5	306.0	461.0	610.7	651.4
77.5°	186.5	249.5	395.3	525.3	558.2
80°	122.1	199.6	336.2	451.8	474.1
82.5°	73.5	160.2	291.6	395.3	407.1
85°	38.1	130.0	261.4	355.9	361.2
87.5°	11.8	109.0	244.3	337.5	344.1
90°	1.3	97.2	233.8	277.1	256.1
92.5°	0.0	91.9	202.3	189.1	169.4
95°	0.0	90.6	161.5	143.2	135.3
97.5°	0.0	88.0	132.6	119.5	115.6
100°	0.0	85.4	114.3	105.1	103.8
102.5°	0.0	84.1	103.8	95.9	94.6
105°	0.0	81.4	99.8	90.6	89.3
107.5°	0.0	77.5	97.2	88.0	85.4
110°	0.0	73.5	97.2	86.7	82.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	69.6	97.2	85.4	81.4
115°	0.0	67.0	95.9	85.4	81.4
117.5°	1.3	64.4	94.6	85.4	81.4
120°	0.0	61.7	91.9	85.4	80.1
122.5°	1.3	57.8	89.3	84.1	80.1
125°	1.3	53.8	85.4	82.7	78.8
127.5°	1.3	49.9	81.4	80.1	76.2
130°	1.3	46.0	77.5	78.8	74.9
132.5°	1.3	42.0	72.2	76.2	73.5
135°	1.3	38.1	68.3	74.9	72.2
137.5°	1.3	34.1	63.0	70.9	70.9
140°	1.3	30.2	57.8	68.3	69.6
142.5°	1.3	27.6	52.5	65.7	67.0
145°	1.3	23.6	47.3	60.4	64.4
147.5°	1.3	21.0	42.0	55.2	60.4
150°	1.3	18.4	36.8	49.9	55.2
152.5°	1.3	15.8	32.8	43.3	51.2
155°	2.6	14.4	28.9	38.1	46.0
157.5°	2.6	11.8	23.6	32.8	39.4
160°	2.6	10.5	21.0	27.6	35.5
162.5°	2.6	9.2	17.1	23.6	30.2
165°	2.6	7.9	14.4	18.4	25.0
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)