

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-LD5-83SL-SLN-UNV-L950-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: 8SNLED-LD5-83SL-SLN-UNV-L950-CD1-U  
Description: 8FT LINEAR SNLED LED FIXTURE  
SQUARE NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

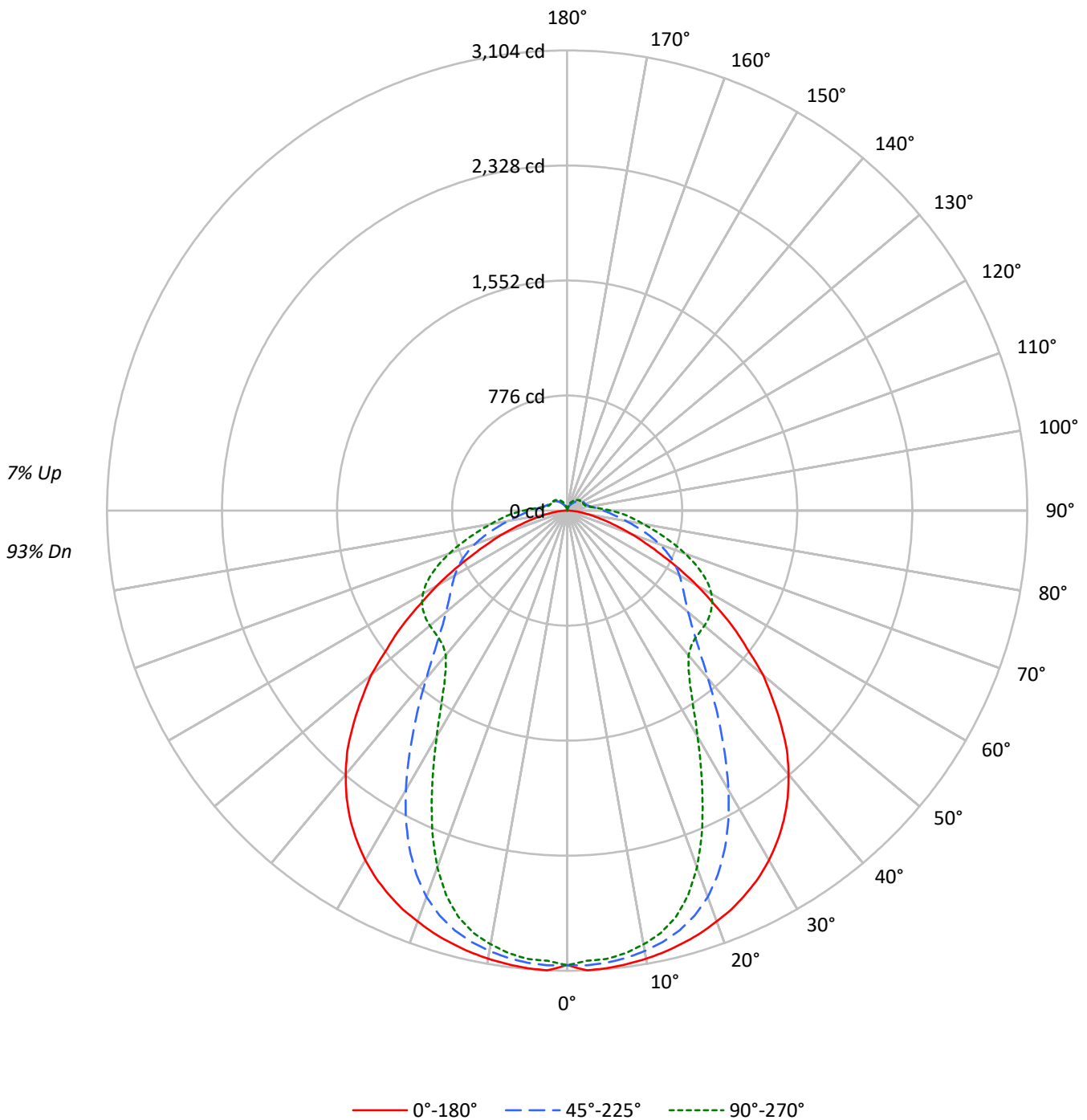
Lumens per Lamp: N/A  
Luminaire Lumens: 7710.0 lumens  
Efficiency: N/A  
Efficacy: 126.4 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 61  
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				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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	95	95	95	93
1	107	102	97	93	103	99	94	91	93	90	87	88	85	83	83	81	79	79	79	79	76
2	97	89	82	76	94	86	80	75	81	76	72	77	73	69	73	70	66	66	66	66	64
3	89	78	70	64	86	76	69	63	72	66	61	68	63	59	65	61	57	57	57	57	54
4	82	70	61	55	79	68	60	54	65	58	52	61	55	51	58	53	49	49	49	49	47
5	75	63	54	47	73	61	53	47	58	51	46	55	49	44	53	48	43	43	43	43	41
6	70	57	48	42	67	55	47	41	53	46	40	51	44	39	48	43	39	39	39	39	36
7	65	52	43	37	63	51	42	37	48	41	36	46	40	35	44	39	35	35	35	35	32
8	61	47	39	33	59	46	39	33	44	37	32	43	36	32	41	35	31	31	31	31	29
9	57	44	36	30	55	43	35	30	41	34	29	40	33	29	38	33	28	28	28	28	27
10	53	40	33	28	52	40	32	27	38	32	27	37	31	27	35	30	26	26	26	26	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	12387	12387	12387
5°	12547	12125	11924
10°	12560	11801	11434
15°	12582	11416	10781
20°	12607	10837	9683
25°	12632	9939	8199
30°	12593	8754	6744
35°	12436	7455	5652
40°	12098	6320	5109
45°	11484	5499	5071
50°	10639	5033	5249
55°	9402	4845	5432
60°	7967	4783	5507
65°	6446	4686	5335
70°	5222	4455	4921
75°	3990	4044	4366
80°	3018	3646	3884
85°	2148	3459	3573



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	290.1	3.8
10°-20°	819.8	10.6
20°-30°	1146.0	14.9
30°-40°	1188.7	15.4
40°-50°	1098.2	14.2
50°-60°	980.5	12.7
60°-70°	794.6	10.3
70°-80°	528.5	6.9
80°-90°	302.6	3.9
90°-100°	167.4	2.2
100°-110°	113.4	1.5
110°-120°	94.4	1.2
120°-130°	76.8	1.0
130°-140°	55.4	0.7
140°-150°	33.4	0.4
150°-160°	16.0	0.2
160°-170°	4.2	0.1
170°-180°	0.0	0.0
0°-30°	2255.9	29.3
0°-40°	3444.6	44.7
0°-60°	5523.3	71.6
0°-90°	7149.1	92.7
90°-120°	375.2	4.9
90°-150°	540.7	7.0
90°-180°	561.0	7.3
0°-180°	7710.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3066	3066	3066	3066	3066	
5°	3098	3046	3062	3040	3036	295
15°	3020	2956	2931	2865	2837	854
25°	2854	2727	2517	2253	2161	1315
35°	2549	2269	1804	1515	1447	1590
45°	2041	1618	1228	1184	1220	1569
55°	1364	1031	959	1115	1184	1213
65°	697	624	781	957	1007	704
75°	270	338	526	645	672	297
85°	55	157	310	397	408	63
90°	3	111	245	296	293	4
95°	3	93	194	208	201	2
105°	1	81	140	136	129	1
115°	1	73	124	123	119	1
125°	1	63	109	115	112	1
135°	3	47	87	101	101	2
145°	3	29	60	79	84	2
155°	3	19	37	49	60	1
165°	3	11	19	24	32	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°	3065.8	3065.8	3065.8	3065.8	3065.8
2.5°	3104.4	3053.8	3069.8	3056.5	3039.2
5°	3097.8	3045.8	3061.8	3040.5	3036.5
7.5°	3085.8	3033.8	3043.2	3017.8	3011.2
10°	3069.8	3015.2	3016.5	2980.5	2971.2
12.5°	3048.5	2988.5	2980.5	2931.2	2917.9
15°	3020.5	2956.5	2931.2	2864.6	2836.6
17.5°	2989.9	2915.2	2863.3	2760.7	2716.7
20°	2948.6	2864.6	2774.0	2618.1	2559.5
22.5°	2907.3	2803.3	2658.1	2450.2	2371.6
25°	2854.0	2727.4	2516.9	2253.1	2161.1
27.5°	2794.0	2638.1	2354.3	2050.5	1951.9
30°	2723.4	2530.2	2175.8	1852.0	1758.7
32.5°	2640.8	2408.9	1987.9	1673.5	1586.9
35°	2548.8	2269.0	1804.0	1514.9	1447.0
37.5°	2443.6	2115.8	1633.5	1387.0	1343.0
40°	2323.7	1949.3	1476.3	1288.4	1273.8
42.5°	2194.4	1786.7	1341.7	1224.5	1237.8
45°	2041.2	1617.5	1228.5	1184.5	1220.5
47.5°	1880.0	1452.3	1136.5	1161.8	1213.8
50°	1724.1	1299.1	1064.6	1147.2	1208.5
52.5°	1530.9	1161.8	1007.3	1133.9	1200.5
55°	1364.4	1031.3	959.3	1115.2	1184.5
57.5°	1172.5	914.0	916.7	1091.2	1160.5
60°	1012.6	807.4	875.4	1057.9	1124.5
62.5°	850.1	711.5	830.1	1013.9	1073.9
65°	696.8	623.6	780.8	956.6	1007.3
67.5°	568.9	543.6	724.8	887.4	930.0
70°	461.0	470.3	663.5	810.1	846.1
72.5°	354.4	402.4	596.9	727.5	758.1
75°	270.5	338.4	526.3	644.9	671.5
77.5°	199.9	282.5	462.3	570.3	592.9
80°	141.2	233.2	402.4	505.0	522.3
82.5°	94.6	191.9	353.1	446.3	462.3
85°	54.6	157.2	310.4	397.0	407.7
87.5°	22.7	130.6	275.8	346.4	351.7
90°	2.7	110.6	245.2	295.8	293.1
92.5°	2.7	99.9	218.5	247.8	241.2
95°	2.7	93.3	194.5	207.9	201.2
97.5°	2.7	89.3	173.2	178.5	171.9
100°	1.3	86.6	158.6	158.6	151.9
102.5°	1.3	83.9	147.9	143.9	138.6
105°	1.3	81.3	139.9	135.9	129.2
107.5°	1.3	79.9	134.6	130.6	123.9
110°	1.3	77.3	130.6	126.6	121.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.3	75.9	127.9	125.2	118.6
115°	1.3	73.3	123.9	122.6	118.6
117.5°	1.3	70.6	121.2	121.2	117.2
120°	1.3	68.0	117.2	119.9	115.9
122.5°	1.3	65.3	113.3	117.2	113.3
125°	1.3	62.6	109.3	114.6	111.9
127.5°	2.7	58.6	103.9	111.9	109.3
130°	1.3	54.6	98.6	109.3	107.9
132.5°	2.7	50.6	93.3	105.3	105.3
135°	2.7	46.6	86.6	101.3	101.3
137.5°	2.7	41.3	79.9	95.9	97.3
140°	2.7	37.3	73.3	90.6	93.3
142.5°	2.7	33.3	66.6	85.3	89.3
145°	2.7	29.3	60.0	78.6	83.9
147.5°	2.7	26.6	53.3	70.6	78.6
150°	2.7	22.7	48.0	64.0	71.9
152.5°	2.7	20.0	42.6	57.3	66.6
155°	2.7	18.7	37.3	49.3	60.0
157.5°	2.7	16.0	32.0	42.6	53.3
160°	2.7	13.3	26.6	37.3	45.3
162.5°	2.7	12.0	22.7	30.6	40.0
165°	2.7	10.7	18.7	24.0	32.0
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)