

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: P290383

Luminaire Tested: **4SSRK-SLN-80-L950-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290383  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-15)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SSRK-SLN-80-L950-CD1-U  
Description: 8000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH SQUARE NARROW LENS AND 90 CRI 5000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7798.8 lumens  
Efficiency: N/A  
Efficacy: 124.0 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 0.98 / 1.11  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')  
CIE Type: Direct

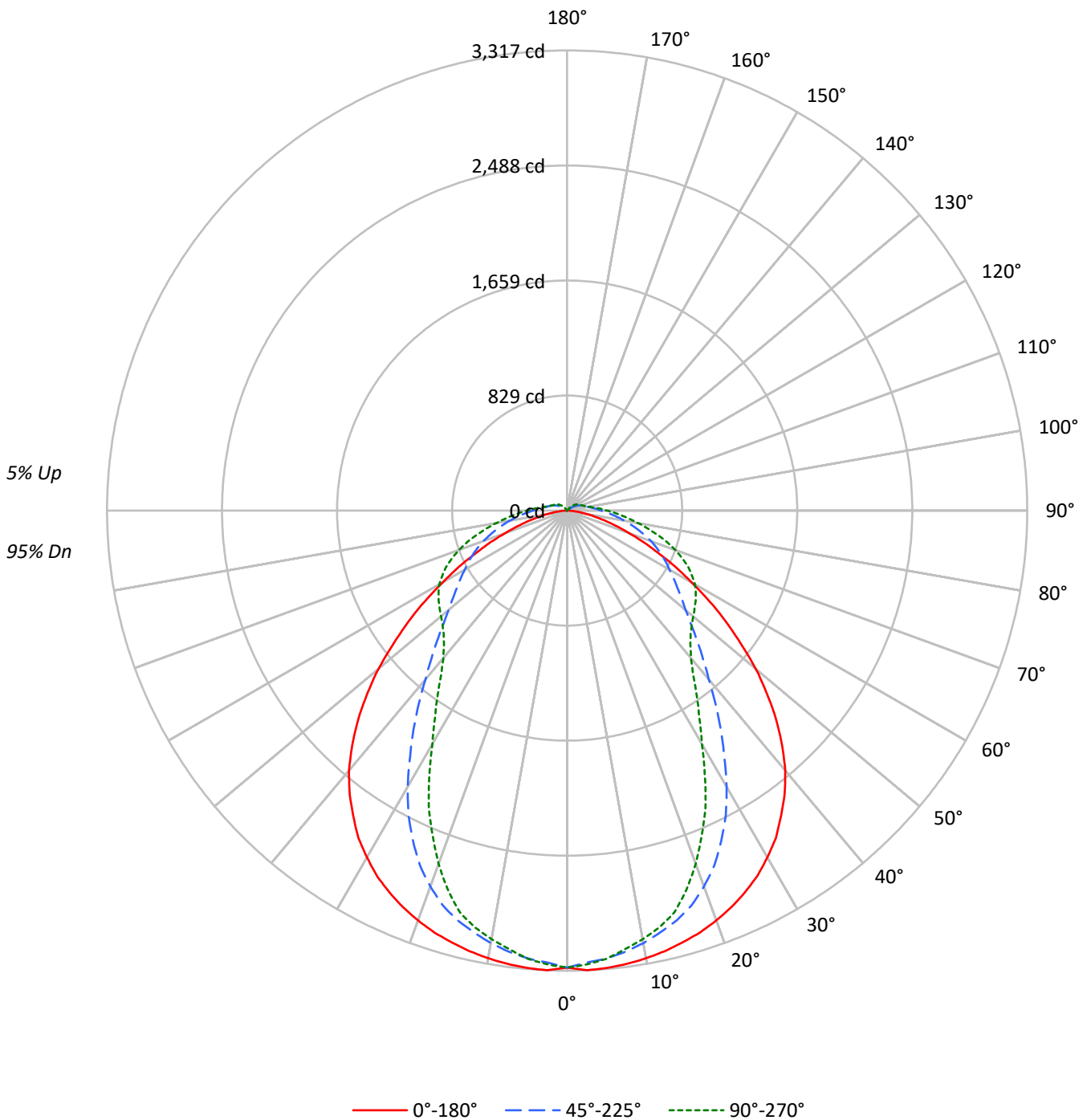
Input Watts (W): 62.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	115	115	115	115	108	108	108		103	103	103		98	98	98	95
1	107	102	98	94	104	100	96	92	94	91	88		90	87	85		85	83	81	79
2	98	90	83	77	95	87	81	76	83	78	73		79	75	71		75	72	69	66
3	90	79	71	65	87	77	70	64	74	67	62		70	65	60		67	63	59	56
4	82	71	62	56	80	69	61	55	66	59	54		63	57	52		60	55	51	49
5	76	64	55	48	74	62	54	48	60	52	47		57	51	46		55	49	45	43
6	71	58	49	43	68	56	48	42	54	47	42		52	46	41		50	45	40	38
7	66	53	44	38	64	52	44	38	50	42	37		48	41	37		46	40	36	34
8	61	48	40	34	60	47	40	34	46	39	34		44	38	33		43	37	33	31
9	57	44	37	31	56	44	36	31	42	35	31		41	35	30		40	34	30	28
10	54	41	34	28	53	41	33	28	39	33	28		38	32	28		37	31	27	26

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

	0°	45°	90°
0°	212736	212736	212736
5°	213710	168081	155770
10°	213329	138060	120614
15°	213048	115724	96681
20°	212825	97127	75820
25°	212122	80316	58687
30°	210157	64705	43795
35°	205895	50747	33772
40°	199265	39456	26869
45°	186839	31336	22993
50°	170076	25395	20673
55°	148506	21483	18983
60°	124821	18502	17336
65°	101746	16069	15368
70°	80599	13684	13040
75°	60898	11294	10529
80°	42568	9056	8136
85°	24897	7081	6187



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	309.3	4.0
10°-20°	867.1	11.1
20°-30°	1219.3	15.6
30°-40°	1276.8	16.4
40°-50°	1156.0	14.8
50°-60°	983.9	12.6
60°-70°	778.0	10.0
70°-80°	529.7	6.8
80°-90°	302.3	3.9
90°-100°	167.6	2.1
100°-110°	102.4	1.3
110°-120°	62.3	0.8
120°-130°	33.7	0.4
130°-140°	10.2	0.1
140°-150°	0.2	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2395.7	30.7
0°-40°	3672.5	47.1
0°-60°	5812.4	74.5
0°-90°	7422.3	95.2
90°-120°	332.3	4.3
90°-150°	376.5	4.8
90°-180°	376.0	4.8
0°-180°	7798.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3294	3294	3294	3294	3294	
5°	3308	3288	3241	3255	3244	315
15°	3222	3161	3056	3025	2996	910
25°	3035	2884	2629	2426	2360	1398
35°	2688	2385	1932	1690	1628	1679
45°	2131	1692	1324	1254	1259	1637
55°	1397	1067	970	1081	1132	1250
65°	725	630	750	915	963	730
75°	282	343	528	649	672	308
85°	50	163	322	385	390	60
90°	1	114	246	286	286	3
95°	2	87	194	214	213	1
105°	2	53	130	135	130	2
115°	2	7	87	102	99	1
125°	1	2	40	70	75	1
135°	2	2	2	29	38	1
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
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°	3294.0	3294.0	3294.0	3294.0	3294.0
2.5°	3316.6	3298.6	3260.7	3285.0	3274.2
5°	3308.5	3287.7	3240.9	3255.3	3243.6
7.5°	3295.8	3267.9	3207.6	3212.1	3189.5
10°	3276.9	3240.9	3166.1	3158.0	3136.4
12.5°	3252.6	3203.0	3112.9	3102.1	3076.9
15°	3222.0	3160.7	3056.2	3024.6	2995.8
17.5°	3187.7	3110.2	2983.2	2912.9	2863.4
20°	3143.6	3045.4	2883.2	2781.4	2709.3
22.5°	3094.0	2975.1	2770.6	2617.4	2535.4
25°	3034.6	2884.1	2629.1	2425.5	2359.7
27.5°	2968.8	2789.5	2475.0	2237.2	2149.8
30°	2885.9	2669.7	2299.3	2044.4	1943.5
32.5°	2799.4	2540.8	2108.3	1851.6	1773.2
35°	2687.7	2384.9	1931.7	1690.3	1628.1
37.5°	2575.1	2218.3	1756.0	1546.1	1491.2
40°	2446.2	2049.8	1590.3	1427.2	1388.4
42.5°	2293.0	1878.6	1449.7	1327.2	1313.7
45°	2130.9	1692.1	1323.6	1254.2	1258.7
47.5°	1954.3	1522.7	1209.1	1195.6	1218.1
50°	1776.8	1365.0	1113.6	1151.5	1186.6
52.5°	1579.4	1212.7	1037.9	1115.4	1157.8
55°	1397.4	1066.8	969.5	1081.2	1131.7
57.5°	1216.3	942.4	910.0	1046.1	1099.2
60°	1036.1	828.9	852.3	1008.2	1064.1
62.5°	879.4	720.8	801.9	965.9	1014.5
65°	725.3	629.8	749.6	915.4	963.2
67.5°	597.4	548.7	697.4	855.0	898.3
70°	475.7	472.1	641.5	788.4	828.0
72.5°	371.2	402.7	582.9	719.0	756.8
75°	282.0	343.3	528.0	648.7	672.1
77.5°	206.3	287.4	472.1	577.5	593.8
80°	141.5	238.8	419.0	506.4	518.1
82.5°	89.2	197.3	367.6	442.4	450.5
85°	49.6	163.1	321.7	384.7	390.1
87.5°	18.9	134.2	280.2	334.3	338.8
90°	0.9	113.5	246.0	286.5	286.5
92.5°	0.9	99.1	218.0	248.7	250.5
95°	1.8	87.4	193.7	214.4	212.6
97.5°	1.8	79.3	171.2	188.3	182.9
100°	1.8	72.1	154.1	165.8	160.4
102.5°	1.8	64.0	140.6	147.8	141.5
105°	1.8	53.2	129.7	135.1	129.7
107.5°	1.8	42.3	118.0	125.2	119.8
110°	1.8	31.5	107.2	116.2	111.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.9	19.8	97.3	108.1	105.4
115°	1.8	7.2	87.4	101.8	99.1
117.5°	0.9	3.6	74.8	94.6	93.7
120°	0.9	2.7	63.1	88.3	88.3
122.5°	0.9	2.7	52.3	79.3	82.9
125°	0.9	1.8	39.6	70.3	74.8
127.5°	0.9	1.8	27.9	61.3	66.7
130°	0.9	1.8	14.4	50.5	57.7
132.5°	0.9	1.8	1.8	39.6	47.8
135°	1.8	1.8	1.8	28.8	37.8
137.5°	1.8	1.8	1.8	15.3	27.0
140°	1.8	1.8	0.9	0.9	12.6
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
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)