

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: P289957

Luminaire Tested: **8SSRK-LW-50-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289957
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-7)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SSRK-LW-50-L935-CD1-U
Description: 5000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH ROUND FROSTED LENS AND 90 CRI 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3860.3 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')
CIE Type: Semi-Direct

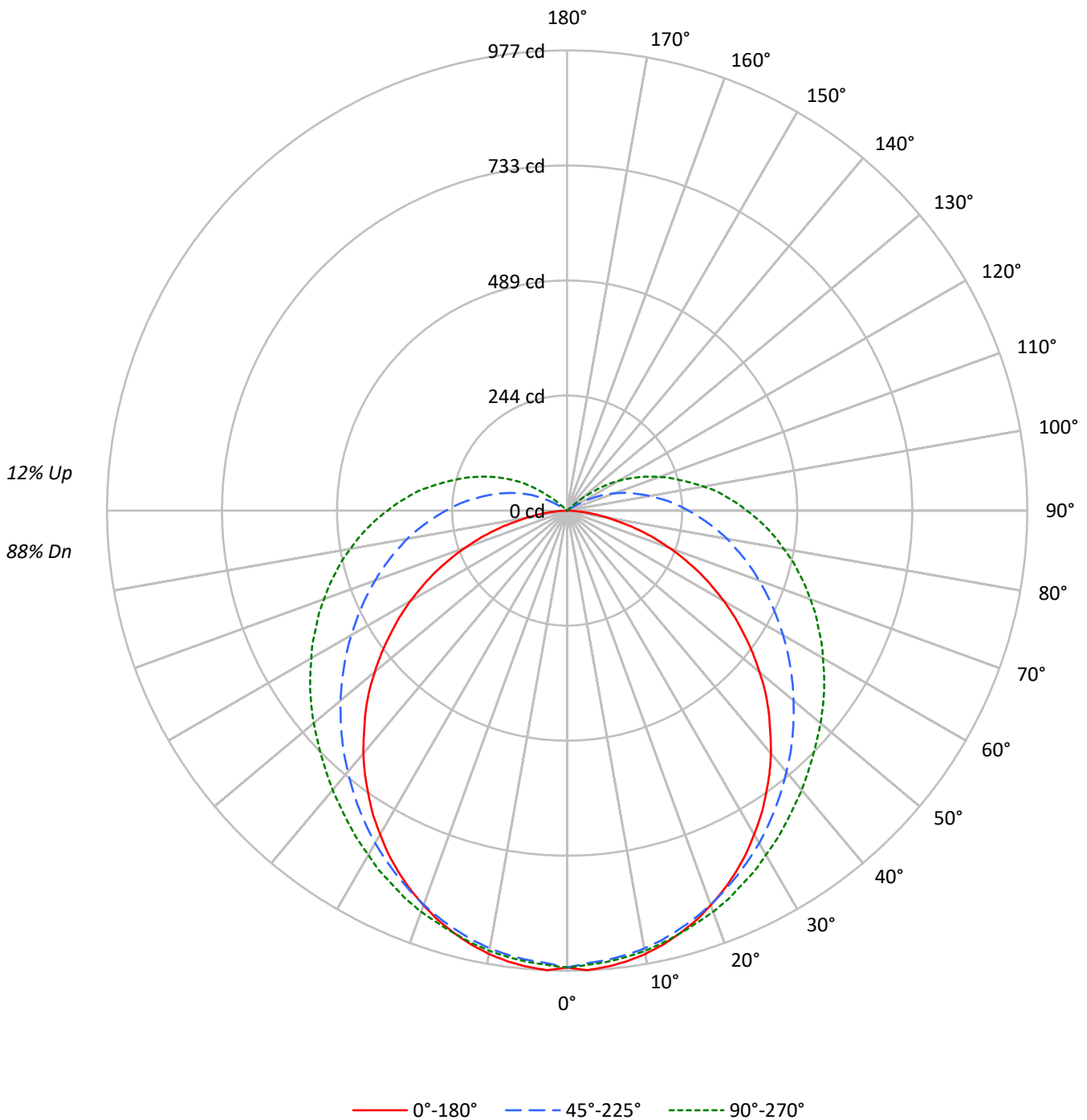
Input Watts (W): 34.1991
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									70									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0													
RCR																																					
0	116	116	116	116	112	112	112	112	105	105	105	98	98	98	91	91	91	88																			
1	103	97	92	87	99	94	89	84	87	83	79	81	78	75	76	73	71	67																			
2	93	83	75	68	89	80	73	67	74	68	63	69	64	60	65	61	57	54																			
3	84	72	63	56	80	70	61	54	65	58	52	60	54	50	56	51	47	44																			
4	76	63	54	47	73	61	52	46	57	50	44	53	47	42	50	44	40	37																			
5	70	56	47	40	67	54	46	39	51	43	37	48	41	36	45	39	34	32																			
6	65	50	41	34	62	49	40	34	46	38	32	43	36	31	40	35	30	28																			
7	60	46	36	30	57	44	36	30	42	34	28	39	32	27	37	31	26	24																			
8	55	41	33	27	53	40	32	26	38	31	25	36	29	24	34	28	24	21																			
9	52	38	30	24	50	37	29	23	35	28	23	33	27	22	31	25	21	19																			
10	49	35	27	21	47	34	26	21	32	25	21	31	24	20	29	23	19	17																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	31326	31326	31326
5°	31456	24865	23097
10°	31226	20620	18251
15°	30861	17459	14987
20°	30405	15039	12681
25°	29892	13095	10902
30°	29258	11512	9511
35°	28593	10164	8400
40°	27886	9015	7496
45°	27074	8041	6740
50°	26142	7186	6117
55°	25056	6433	5586
60°	23955	5769	5109
65°	22542	5175	4694
70°	20602	4648	4328
75°	18013	4173	3985
80°	14336	3746	3666
85°	9307	3314	3375



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.6	2.4
10°-20°	261.5	6.8
20°-30°	396.5	10.3
30°-40°	483.9	12.5
40°-50°	521.2	13.5
50°-60°	511.9	13.3
60°-70°	462.5	12.0
70°-80°	385.1	10.0
80°-90°	295.3	7.7
90°-100°	213.8	5.5
100°-110°	138.1	3.6
110°-120°	74.4	1.9
120°-130°	23.5	0.6
130°-140°	0.9	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	749.6	19.4
0°-40°	1233.5	32.0
0°-60°	2266.6	58.7
0°-90°	3409.5	88.3
90°-120°	426.4	11.0
90°-150°	450.8	11.7
90°-180°	451.0	11.7
0°-180°	3860.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	970	970	970	970	970	
5°	972	969	958	965	962	92
15°	928	926	920	930	929	262
25°	847	848	855	873	877	390
35°	736	746	771	802	810	460
45°	605	628	677	721	738	467
55°	458	504	578	642	666	411
65°	308	375	481	561	588	304
75°	156	258	388	478	509	165
85°	31	158	300	393	426	37
90°	1	119	257	350	381	2
95°	2	86	218	309	339	2
105°	2	31	142	222	250	2
115°	2	2	71	141	168	2
125°	1	0	0	57	81	1
135°	0	0	0	0	0	0
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°	970.1	970.1	970.1	970.1	970.1
2.5°	976.7	972.7	961.9	968.6	965.5
5°	972.2	968.6	957.9	965.0	961.9
7.5°	965.5	961.9	951.7	958.9	956.3
10°	955.8	952.2	944.1	951.2	949.2
12.5°	943.6	941.0	933.4	942.0	940.0
15°	928.3	926.2	920.1	930.3	928.8
17.5°	911.9	909.9	906.3	917.0	917.5
20°	891.5	891.0	890.5	904.3	906.3
22.5°	870.6	871.1	873.1	890.0	893.1
25°	847.1	848.1	854.8	873.1	876.7
27.5°	822.1	825.7	835.4	856.8	862.4
30°	794.1	800.2	815.5	837.9	844.1
32.5°	766.5	773.1	793.5	820.1	828.2
35°	735.9	745.6	771.1	801.7	809.9
37.5°	705.3	716.5	748.1	781.3	791.5
40°	673.1	687.9	724.1	761.4	774.7
42.5°	638.4	659.3	701.2	741.0	755.8
45°	605.2	628.2	676.7	721.1	737.9
47.5°	571.0	598.6	652.2	701.7	719.5
50°	533.3	566.4	627.7	682.3	702.2
52.5°	496.5	535.8	603.2	662.4	684.3
55°	458.3	503.7	578.2	642.5	666.0
57.5°	422.5	471.0	554.2	621.6	646.6
60°	384.3	439.4	529.2	602.2	627.2
62.5°	345.5	407.7	504.7	581.2	609.3
65°	308.2	375.1	480.7	561.3	588.4
67.5°	268.4	345.5	457.2	539.9	570.5
70°	230.7	314.9	433.8	519.5	549.6
72.5°	192.9	285.3	410.8	499.1	529.7
75°	155.6	258.2	388.3	478.2	508.8
77.5°	118.4	229.6	365.4	457.2	489.4
80°	86.2	204.6	345.0	435.8	466.9
82.5°	58.7	181.2	322.0	415.4	447.0
85°	31.1	158.2	299.6	392.9	425.6
87.5°	9.2	137.8	277.6	371.0	403.7
90°	1.0	118.9	257.2	349.6	381.2
92.5°	1.5	102.6	237.8	330.2	360.8
95°	2.0	86.2	217.9	308.7	338.8
97.5°	2.0	72.0	197.5	286.8	318.9
100°	2.0	58.2	178.1	264.3	293.9
102.5°	2.0	45.4	159.7	241.9	271.0
105°	2.0	30.6	141.9	222.0	249.5
107.5°	2.0	15.3	124.5	202.6	229.6
110°	2.0	3.1	107.2	182.7	208.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.5	2.0	90.3	161.8	188.3
115°	1.5	1.5	71.4	141.4	167.9
117.5°	1.5	1.5	51.0	122.5	146.5
120°	1.5	1.0	29.6	102.6	126.6
122.5°	1.0	1.0	9.7	79.6	105.6
125°	1.0	0.5	0.5	56.6	80.6
127.5°	1.0	0.5	0.0	31.6	54.6
130°	1.0	0.5	0.0	9.2	31.1
132.5°	1.0	0.5	0.0	0.0	6.6
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
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)