

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: P290457

Luminaire Tested: **4SSRK-SLW-40-L835-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290457  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-17)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SSRK-SLW-40-L835-CD1-U  
Description: 4000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH SQUARE FROSTED LENS AND 80 CRI 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3900.2 lumens  
Efficiency: N/A  
Efficacy: 140.8 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.23 / 1.34  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')  
CIE Type: Direct

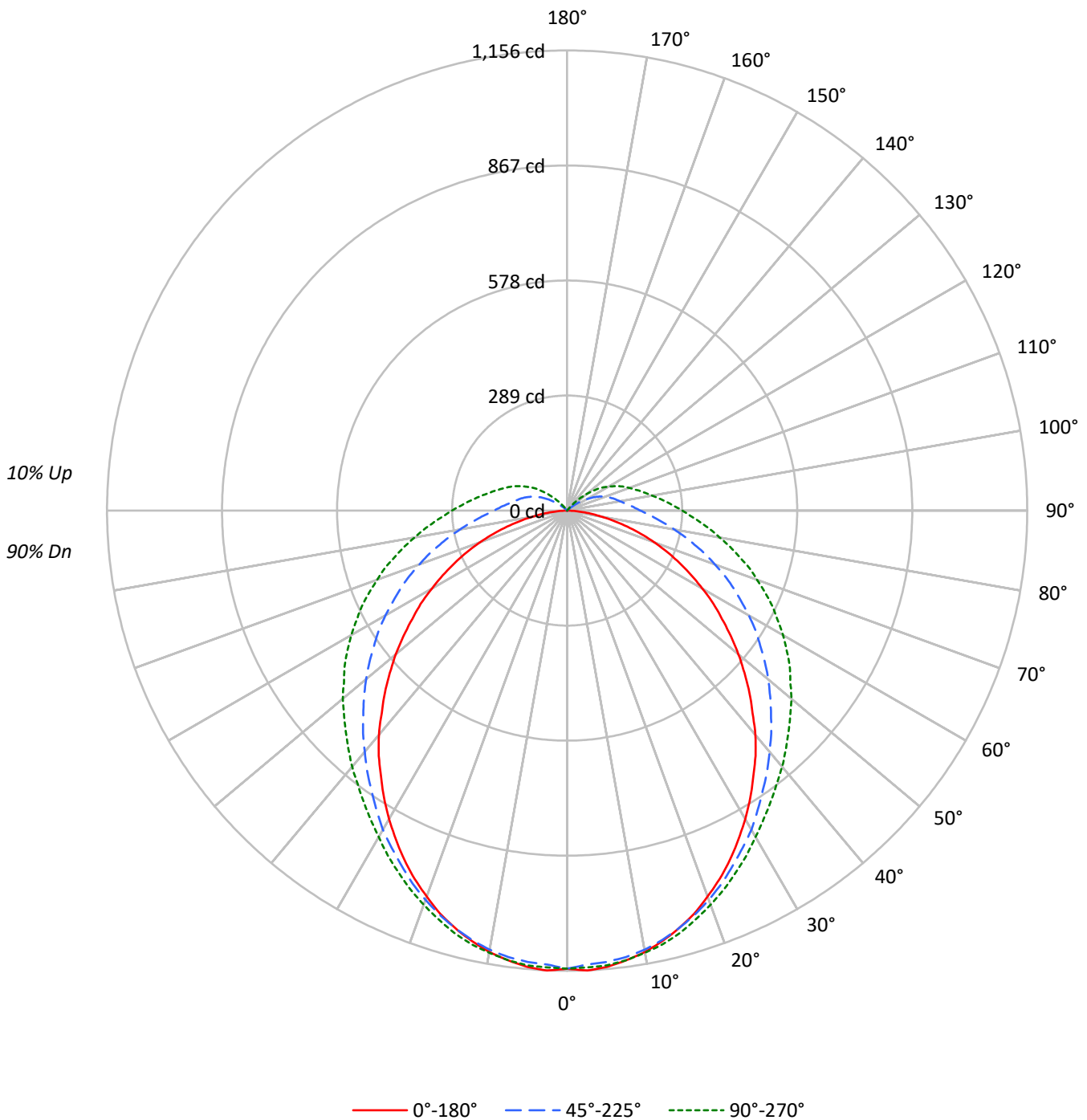
Input Watts (W): 27.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	90
1	104	99	94	89	101	96	91	87	89	86	82	84	81	78	79	76	74	71
2	94	85	78	71	91	82	76	70	77	72	67	72	68	64	68	64	61	58
3	86	74	66	59	82	72	64	58	68	61	55	63	58	53	60	55	51	48
4	78	66	56	49	75	64	55	49	60	53	47	56	50	45	53	48	43	41
5	72	59	49	42	69	57	48	42	54	46	40	50	44	39	48	42	38	35
6	66	53	43	37	64	51	43	36	48	41	35	46	39	34	43	37	33	31
7	61	48	39	32	59	46	38	32	44	36	31	42	35	30	39	34	29	27
8	57	43	35	29	55	42	34	28	40	33	28	38	32	27	36	30	26	24
9	53	40	32	26	51	39	31	26	37	30	25	35	29	24	33	28	24	22
10	50	37	29	23	48	36	28	23	34	27	23	33	26	22	31	26	21	20

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

	0°	45°	90°
0°	74316	74316	74316
5°	74329	59025	55074
10°	73297	48843	43375
15°	71816	41126	35428
20°	69847	35065	29485
25°	67671	30063	24945
30°	65154	26053	21333
35°	62472	22522	18509
40°	59946	19620	16262
45°	56817	17145	14365
50°	53795	15042	12821
55°	50480	13120	11455
60°	47285	11440	10200
65°	43684	9882	9083
70°	39342	8424	7994
75°	33666	7086	7009
80°	26443	5900	6110
85°	17317	4917	5323



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	108.7	2.8
10°-20°	307.5	7.9
20°-30°	455.0	11.7
30°-40°	537.3	13.8
40°-50°	558.6	14.3
50°-60°	526.6	13.5
60°-70°	448.9	11.5
70°-80°	339.5	8.7
80°-90°	229.1	5.9
90°-100°	157.3	4.0
100°-110°	112.8	2.9
110°-120°	72.4	1.9
120°-130°	36.9	0.9
130°-140°	9.4	0.2
140°-150°	0.1	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	871.3	22.3
0°-40°	1408.6	36.1
0°-60°	2493.8	63.9
0°-90°	3511.3	90.0
90°-120°	342.4	8.8
90°-150°	388.9	10.0
90°-180°	389.0	10.0
0°-180°	3900.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1151	1151	1151	1151	1151	
5°	1151	1148	1138	1149	1147	109
15°	1086	1090	1086	1097	1098	306
25°	968	979	984	1001	1003	445
35°	816	835	857	883	892	511
45°	648	680	724	769	786	500
55°	475	524	592	656	683	426
65°	311	374	461	537	569	309
75°	156	232	331	416	447	167
85°	34	116	223	306	336	39
90°	0	82	184	262	290	2
95°	0	65	156	225	251	1
105°	1	42	118	170	190	1
115°	1	5	82	129	145	1
125°	1	2	34	80	96	1
135°	1	0	0	25	37	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°	1150.7	1150.7	1150.7	1150.7	1150.7
2.5°	1156.5	1152.6	1141.5	1151.2	1148.8
5°	1150.7	1147.8	1138.1	1148.8	1146.8
7.5°	1139.5	1139.0	1131.3	1142.4	1139.0
10°	1125.9	1126.4	1120.1	1131.3	1127.9
12.5°	1107.5	1109.4	1105.0	1115.7	1115.2
15°	1086.1	1089.5	1086.1	1096.8	1097.8
17.5°	1061.8	1067.2	1064.7	1077.8	1076.4
20°	1031.7	1039.0	1040.9	1054.0	1053.6
22.5°	1001.6	1010.8	1014.2	1027.8	1029.8
25°	968.1	979.2	984.1	1001.1	1003.0
27.5°	931.6	946.2	954.9	971.9	976.3
30°	894.7	910.3	925.8	942.8	946.7
32.5°	856.3	873.3	891.3	914.6	919.0
35°	815.5	835.0	857.3	883.1	892.3
37.5°	777.2	799.0	825.3	855.4	865.1
40°	735.9	758.2	790.8	824.8	840.3
42.5°	689.7	719.9	758.7	799.5	813.1
45°	648.0	680.0	724.2	768.9	786.4
47.5°	604.2	641.7	691.7	741.2	760.2
50°	562.0	602.8	659.6	713.1	735.9
52.5°	518.3	564.4	626.1	685.4	706.7
55°	475.0	524.1	592.1	655.7	682.9
57.5°	436.2	486.2	561.5	626.6	654.3
60°	392.5	450.3	527.0	597.0	626.1
62.5°	352.2	410.9	493.0	567.3	596.5
65°	311.4	374.5	461.0	537.2	569.3
67.5°	273.0	336.6	428.4	507.6	538.2
70°	232.2	301.2	394.9	476.5	507.6
72.5°	194.8	265.7	363.8	446.4	479.9
75°	155.9	231.7	331.3	415.8	447.4
77.5°	121.4	198.7	302.1	387.1	418.7
80°	87.9	168.5	273.0	358.5	389.1
82.5°	59.7	140.9	247.2	332.2	362.4
85°	34.5	116.1	223.4	306.0	335.6
87.5°	13.1	96.7	202.1	283.2	310.4
90°	0.5	82.1	183.6	261.8	289.5
92.5°	0.5	71.9	169.5	242.4	268.1
95°	0.5	65.1	156.4	225.4	250.6
97.5°	1.0	59.7	144.7	210.3	232.7
100°	1.0	54.4	135.0	195.7	217.1
102.5°	1.0	49.1	126.3	182.6	202.5
105°	1.0	41.8	118.5	170.5	189.9
107.5°	1.0	32.5	109.8	160.3	177.3
110°	1.0	23.8	100.5	150.1	166.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.0	14.6	92.3	139.9	155.9
115°	1.0	5.3	82.1	128.7	144.7
117.5°	1.0	1.9	69.9	118.0	132.1
120°	1.0	1.5	58.3	106.4	120.5
122.5°	1.0	1.5	46.1	93.7	108.8
125°	1.0	1.5	34.5	80.1	96.2
127.5°	1.0	1.0	22.3	66.1	80.6
130°	1.0	1.0	10.7	52.5	66.5
132.5°	1.0	1.0	0.5	38.4	52.0
135°	1.0	0.5	0.5	25.3	37.4
137.5°	1.0	0.5	0.0	12.1	24.3
140°	1.0	0.5	0.0	0.0	9.7
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)