

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: P289930

Luminaire Tested: **4SSRK-LW-40-L840-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P289930  
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: 4SSRK-LW-40-L840-CD1-U  
Description: 4000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH ROUND FROSTED LENS AND 80 CRI 4000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3736.9 lumens  
Efficiency: N/A  
Efficacy: 134.9 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')  
CIE Type: Semi-Direct

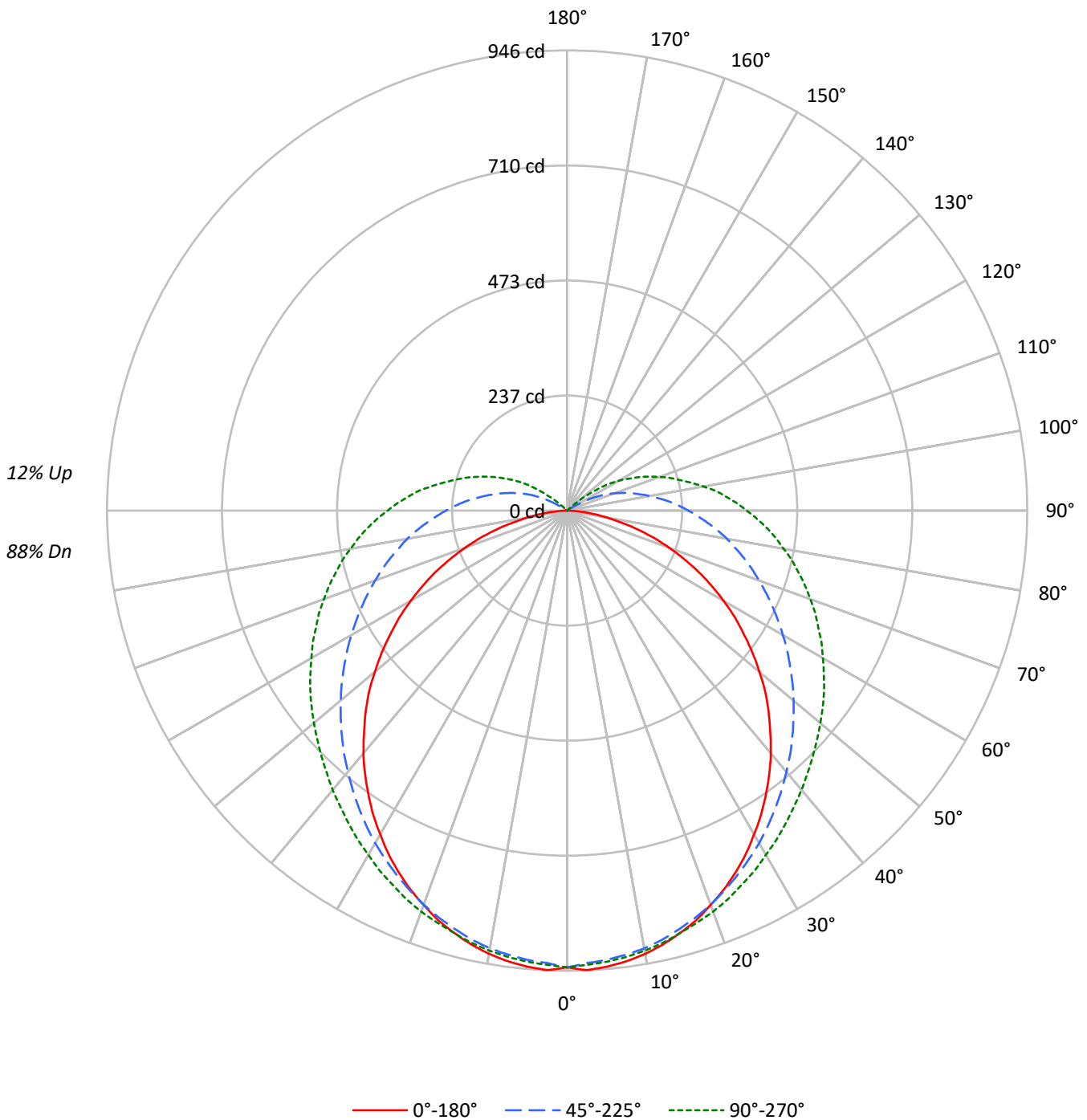
Input Watts (W): 27.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	75	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°	60650	60650	60650
5°	60783	48087	44720
10°	60231	39851	35333
15°	59418	33727	29016
20°	58426	29038	24551
25°	57319	25276	21108
30°	55971	22215	18413
35°	54567	19608	16263
40°	53079	17392	14512
45°	51372	15507	13048
50°	49411	13856	11842
55°	47143	12402	10814
60°	44815	11121	9891
65°	41860	9974	9088
70°	37834	8957	8378
75°	32543	8040	7715
80°	25119	7217	7098
85°	15109	6383	6535



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.7	2.4
10°-20°	253.1	6.8
20°-30°	383.8	10.3
30°-40°	468.4	12.5
40°-50°	504.5	13.5
50°-60°	495.5	13.3
60°-70°	447.7	12.0
70°-80°	372.8	10.0
80°-90°	285.9	7.7
90°-100°	207.0	5.5
100°-110°	133.7	3.6
110°-120°	72.1	1.9
120°-130°	22.8	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°	725.6	19.4
0°-40°	1194.1	32.0
0°-60°	2194.1	58.7
0°-90°	3300.5	88.3
90°-120°	412.8	11.0
90°-150°	436.4	11.7
90°-180°	436.0	11.7
0°-180°	3736.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	939	939	939	939	939	
5°	941	938	927	934	931	89
15°	899	897	891	900	899	253
25°	820	821	827	845	849	378
35°	712	722	746	776	784	446
45°	586	608	655	698	714	452
55°	444	488	560	622	645	397
65°	298	363	465	543	570	294
75°	151	250	376	463	492	160
85°	30	153	290	380	412	36
90°	1	115	249	338	369	2
95°	2	84	211	299	328	2
105°	2	30	137	215	242	2
115°	2	2	69	137	162	2
125°	1	0	0	55	78	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°	939.1	939.1	939.1	939.1	939.1
2.5°	945.5	941.5	931.2	937.6	934.6
5°	941.0	937.6	927.2	934.1	931.2
7.5°	934.6	931.2	921.3	928.2	925.7
10°	925.2	921.8	913.9	920.8	918.8
12.5°	913.4	910.9	903.5	911.9	909.9
15°	898.6	896.6	890.7	900.5	899.1
17.5°	882.8	880.8	877.3	887.7	888.2
20°	863.0	862.5	862.0	875.3	877.3
22.5°	842.7	843.2	845.2	861.5	864.5
25°	820.0	821.0	827.4	845.2	848.7
27.5°	795.8	799.3	808.7	829.4	834.8
30°	768.6	774.6	789.4	811.1	817.1
32.5°	742.0	748.4	768.2	793.8	801.7
35°	712.3	721.7	746.4	776.1	784.0
37.5°	682.7	693.6	724.2	756.3	766.2
40°	651.6	665.9	701.0	737.0	749.9
42.5°	618.0	638.2	678.7	717.3	731.6
45°	585.9	608.1	655.0	698.0	714.3
47.5°	552.8	579.4	631.3	679.2	696.5
50°	516.2	548.3	607.6	660.5	679.7
52.5°	480.7	518.7	583.9	641.2	662.4
55°	443.6	487.6	559.7	621.9	644.7
57.5°	409.0	456.0	536.5	601.7	625.9
60°	372.0	425.3	512.3	582.9	607.1
62.5°	334.4	394.7	488.6	562.7	589.8
65°	298.4	363.1	465.3	543.4	569.6
67.5°	259.8	334.4	442.6	522.6	552.3
70°	223.3	304.8	419.9	502.9	532.0
72.5°	186.7	276.1	397.7	483.1	512.8
75°	150.7	250.0	375.9	462.9	492.5
77.5°	114.6	222.3	353.7	442.6	473.7
80°	83.5	198.1	333.9	421.9	452.0
82.5°	56.8	175.4	311.7	402.1	432.7
85°	30.1	153.1	290.0	380.4	412.0
87.5°	8.9	133.4	268.7	359.1	390.7
90°	1.0	115.1	249.0	338.4	369.0
92.5°	1.5	99.3	230.2	319.6	349.2
95°	2.0	83.5	210.9	298.9	328.0
97.5°	2.0	69.7	191.2	277.6	308.7
100°	2.0	56.3	172.4	255.9	284.5
102.5°	2.0	44.0	154.6	234.2	262.3
105°	2.0	29.6	137.3	214.9	241.6
107.5°	2.0	14.8	120.5	196.1	222.3
110°	2.0	3.0	103.7	176.8	202.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.5	2.0	87.4	156.6	182.3
115°	1.5	1.5	69.2	136.8	162.5
117.5°	1.5	1.5	49.4	118.6	141.8
120°	1.5	1.0	28.7	99.3	122.5
122.5°	1.0	1.0	9.4	77.1	102.3
125°	1.0	0.5	0.5	54.8	78.1
127.5°	1.0	0.5	0.0	30.6	52.9
130°	1.0	0.5	0.0	8.9	30.1
132.5°	1.0	0.5	0.0	0.0	6.4
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)