

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: P289942

Luminaire Tested: **4SSRK-LW-80-L940-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P289942  
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-80-L940-CD1-U  
Description: 8000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH ROUND FROSTED LENS AND 90 CRI 4000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6400.0 lumens  
Efficiency: N/A  
Efficacy: 101.7 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

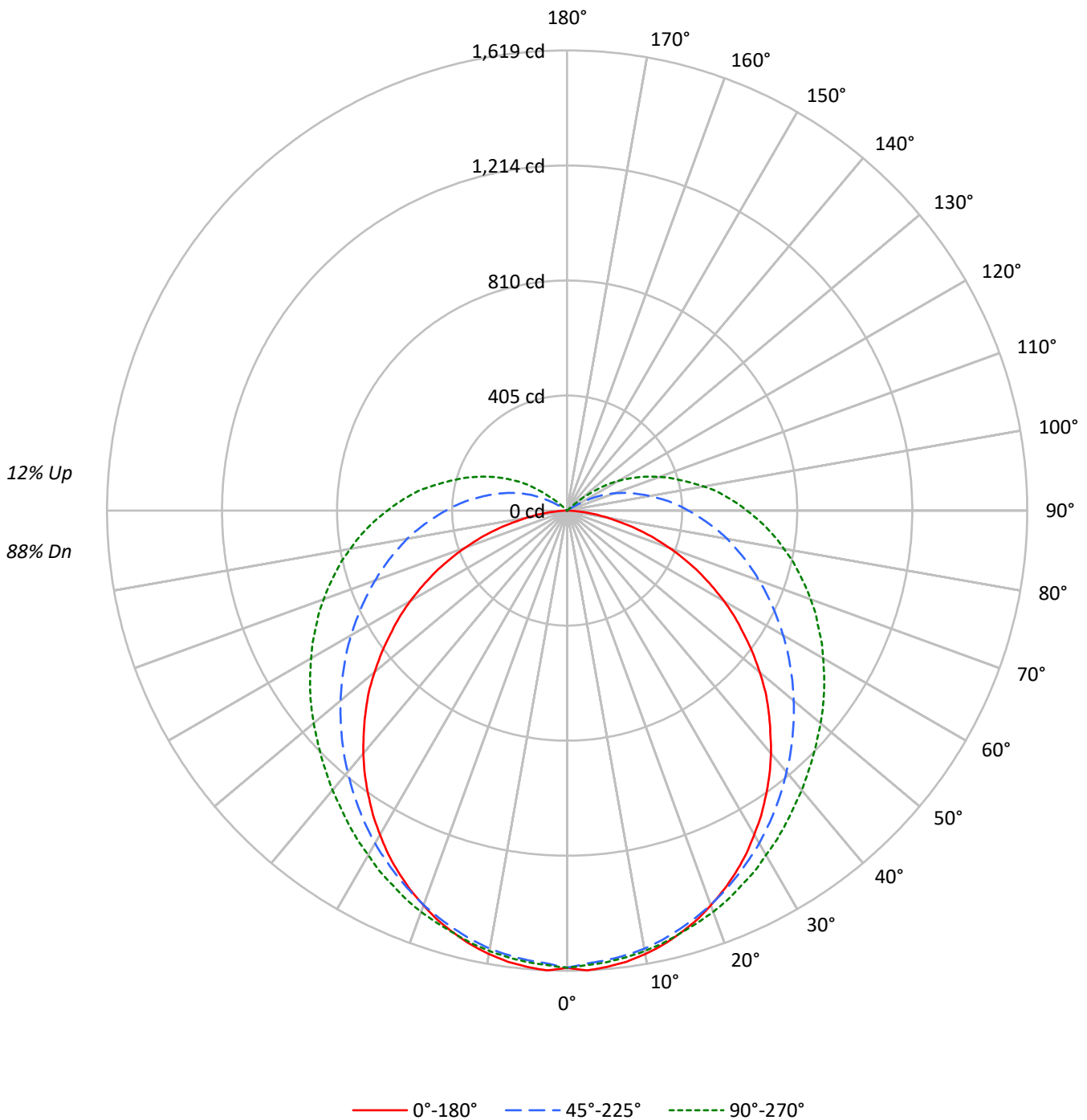
Input Watts (W): 62.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	103869	103869	103869
5°	104106	82358	76588
10°	103159	68251	60514
15°	101757	57760	49693
20°	100062	49732	42050
25°	98169	43291	36149
30°	95863	38047	31532
35°	93460	33585	27852
40°	90900	29785	24854
45°	87979	26558	22348
50°	84626	23730	20281
55°	80736	21241	18520
60°	76752	19045	16940
65°	71684	17085	15564
70°	64791	15340	14350
75°	55715	13771	13214
80°	43019	12361	12155
85°	25901	10931	11191



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	151.9	2.4
10°-20°	433.5	6.8
20°-30°	657.4	10.3
30°-40°	802.3	12.5
40°-50°	864.0	13.5
50°-60°	848.6	13.3
60°-70°	766.8	12.0
70°-80°	638.4	10.0
80°-90°	489.6	7.7
90°-100°	354.5	5.5
100°-110°	229.0	3.6
110°-120°	123.4	1.9
120°-130°	39.0	0.6
130°-140°	1.5	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°	1242.8	19.4
0°-40°	2045.0	32.0
0°-60°	3757.7	58.7
0°-90°	5652.5	88.3
90°-120°	706.9	11.0
90°-150°	747.4	11.7
90°-180°	747.0	11.7
0°-180°	6400.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1608	1608	1608	1608	1608	
5°	1612	1606	1588	1600	1595	153
15°	1539	1536	1525	1542	1540	434
25°	1404	1406	1417	1448	1454	647
35°	1220	1236	1278	1329	1343	763
45°	1003	1042	1122	1195	1223	774
55°	760	835	959	1065	1104	681
65°	511	622	797	931	976	504
75°	258	428	644	793	844	273
85°	52	262	497	651	706	62
90°	2	197	426	580	632	3
95°	3	143	361	512	562	3
105°	3	51	235	368	414	4
115°	2	2	118	234	278	3
125°	2	1	1	94	134	2
135°	0	0	0	0	0	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°	1608.3	1608.3	1608.3	1608.3	1608.3
2.5°	1619.3	1612.5	1594.8	1605.8	1600.7
5°	1611.7	1605.8	1588.0	1599.8	1594.8
7.5°	1600.7	1594.8	1577.8	1589.7	1585.5
10°	1584.6	1578.7	1565.2	1577.0	1573.6
12.5°	1564.3	1560.1	1547.4	1561.8	1558.4
15°	1538.9	1535.5	1525.4	1542.3	1539.8
17.5°	1511.9	1508.5	1502.6	1520.3	1521.2
20°	1478.0	1477.2	1476.3	1499.2	1502.6
22.5°	1443.3	1444.2	1447.6	1475.5	1480.6
25°	1404.4	1406.1	1417.1	1447.6	1453.5
27.5°	1363.0	1368.9	1385.0	1420.5	1429.8
30°	1316.4	1326.6	1352.0	1389.2	1399.3
32.5°	1270.7	1281.7	1315.6	1359.6	1373.1
35°	1220.0	1236.1	1278.4	1329.1	1342.7
37.5°	1169.2	1187.8	1240.3	1295.3	1312.2
40°	1115.9	1140.5	1200.5	1262.3	1284.3
42.5°	1058.4	1093.1	1162.4	1228.4	1253.0
45°	1003.4	1041.5	1121.8	1195.4	1223.4
47.5°	946.7	992.4	1081.2	1163.3	1192.9
50°	884.1	939.1	1040.6	1131.1	1164.1
52.5°	823.2	888.3	1000.0	1098.1	1134.5
55°	759.7	835.0	958.6	1065.2	1104.1
57.5°	700.5	780.9	918.8	1030.5	1071.9
60°	637.1	728.4	877.3	998.3	1039.8
62.5°	572.8	676.0	836.7	963.6	1010.2
65°	511.0	621.8	797.0	930.6	975.5
67.5°	445.0	572.8	758.0	895.1	945.9
70°	382.4	522.0	719.1	861.3	911.2
72.5°	319.8	472.9	681.1	827.4	878.2
75°	258.0	428.1	643.8	792.7	843.5
77.5°	196.3	380.7	605.8	758.0	811.3
80°	143.0	339.3	571.9	722.5	774.1
82.5°	97.3	300.3	533.8	688.7	741.1
85°	51.6	262.3	496.6	651.4	705.6
87.5°	15.2	228.4	460.2	615.1	669.2
90°	1.7	197.1	426.4	579.5	632.0
92.5°	2.5	170.1	394.3	547.4	598.1
95°	3.4	143.0	361.3	511.8	561.8
97.5°	3.4	119.3	327.4	475.5	528.8
100°	3.4	96.4	295.3	438.2	487.3
102.5°	3.4	75.3	264.8	401.0	449.2
105°	3.4	50.8	235.2	368.0	413.7
107.5°	3.4	25.4	206.4	335.9	380.7
110°	3.4	5.1	177.7	302.9	346.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2.5	3.4	149.7	268.2	312.2
115°	2.5	2.5	118.4	234.4	278.3
117.5°	2.5	2.5	84.6	203.0	242.8
120°	2.5	1.7	49.1	170.1	209.8
122.5°	1.7	1.7	16.1	132.0	175.1
125°	1.7	0.8	0.8	93.9	133.7
127.5°	1.7	0.8	0.0	52.5	90.5
130°	1.7	0.8	0.0	15.2	51.6
132.5°	1.7	0.8	0.0	0.0	11.0
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)