

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: P289973

Luminaire Tested: **8SSRK-LW-80-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289973
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-80-L935-CD1-U
Description: 8000 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: 6345.0 lumens
Efficiency: N/A
Efficacy: 112.0 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

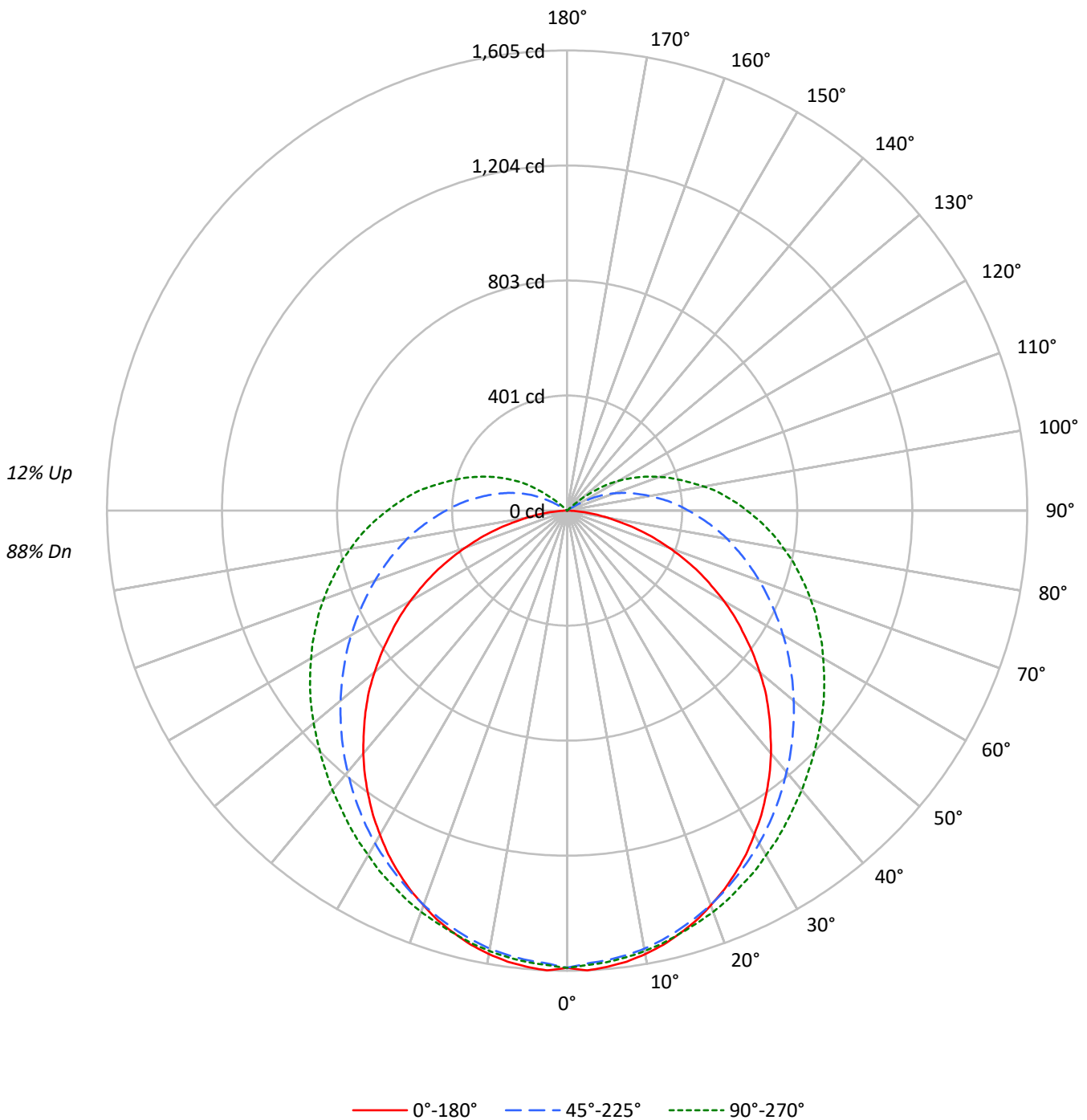
Input Watts (W): 56.6491
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	51489	51489	51489
5°	51698	40868	37965
10°	51324	33890	29998
15°	50722	28696	24633
20°	49974	24717	20843
25°	49133	21522	17919
30°	48085	18920	15631
35°	46994	16705	13806
40°	45833	14819	12320
45°	44502	13216	11078
50°	42966	11811	10053
55°	41179	10572	9180
60°	39370	9482	8397
65°	37053	8506	7715
70°	33855	7640	7114
75°	29612	6859	6550
80°	23583	6157	6026
85°	15321	5446	5547



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.6	2.4
10°-20°	429.8	6.8
20°-30°	651.7	10.3
30°-40°	795.4	12.5
40°-50°	856.6	13.5
50°-60°	841.3	13.3
60°-70°	760.2	12.0
70°-80°	632.9	10.0
80°-90°	485.4	7.7
90°-100°	351.5	5.5
100°-110°	227.1	3.6
110°-120°	122.4	1.9
120°-130°	38.7	0.6
130°-140°	1.4	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°	1232.1	19.4
0°-40°	2027.5	32.0
0°-60°	3725.4	58.7
0°-90°	5604.0	88.3
90°-120°	700.9	11.0
90°-150°	741.1	11.7
90°-180°	741.0	11.7
0°-180°	6345.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1594	1594	1594	1594	1594	
5°	1598	1592	1574	1586	1581	152
15°	1526	1522	1512	1529	1527	430
25°	1392	1394	1405	1435	1441	641
35°	1210	1225	1267	1318	1331	757
45°	995	1032	1112	1185	1213	767
55°	753	828	950	1056	1095	675
65°	507	616	790	923	967	500
75°	256	424	638	786	836	271
85°	51	260	492	646	700	61
90°	2	195	423	575	627	3
95°	3	142	358	508	557	3
105°	3	50	233	365	410	4
115°	2	2	117	232	276	3
125°	2	1	1	93	132	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°	1594.5	1594.5	1594.5	1594.5	1594.5
2.5°	1605.4	1598.7	1581.1	1592.0	1586.9
5°	1597.8	1592.0	1574.4	1586.1	1581.1
7.5°	1586.9	1581.1	1564.3	1576.0	1571.8
10°	1571.0	1565.1	1551.7	1563.5	1560.1
12.5°	1550.9	1546.7	1534.1	1548.4	1545.0
15°	1525.7	1522.4	1512.3	1529.1	1526.6
17.5°	1498.9	1495.5	1489.6	1507.3	1508.1
20°	1465.3	1464.5	1463.6	1486.3	1489.6
22.5°	1430.9	1431.8	1435.1	1462.8	1467.8
25°	1392.4	1394.0	1404.9	1435.1	1441.0
27.5°	1351.3	1357.1	1373.1	1408.3	1417.5
30°	1305.1	1315.2	1340.3	1377.3	1387.3
32.5°	1259.8	1270.7	1304.3	1347.9	1361.3
35°	1209.5	1225.4	1267.4	1317.7	1331.1
37.5°	1159.2	1177.6	1229.6	1284.1	1300.9
40°	1106.3	1130.7	1190.2	1251.4	1273.2
42.5°	1049.3	1083.7	1152.5	1217.9	1242.2
45°	994.8	1032.5	1112.2	1185.2	1212.9
47.5°	938.6	983.9	1071.9	1153.3	1182.7
50°	876.5	931.0	1031.7	1121.4	1154.1
52.5°	816.1	880.7	991.4	1088.7	1124.8
55°	753.2	827.9	950.3	1056.0	1094.6
57.5°	694.5	774.2	910.9	1021.6	1062.7
60°	631.6	722.2	869.8	989.7	1030.8
62.5°	567.8	670.2	829.5	955.4	1001.5
65°	506.6	616.5	790.1	922.6	967.1
67.5°	441.2	567.8	751.5	887.4	937.7
70°	379.1	517.5	713.0	853.9	903.4
72.5°	317.1	468.9	675.2	820.3	870.6
75°	255.8	424.4	638.3	785.9	836.2
77.5°	194.6	377.4	600.6	751.5	804.4
80°	141.8	336.3	567.0	716.3	767.5
82.5°	96.5	297.8	529.3	682.8	734.8
85°	51.2	260.0	492.4	645.8	699.5
87.5°	15.1	226.5	456.3	609.8	663.5
90°	1.7	195.4	422.7	574.6	626.6
92.5°	2.5	168.6	390.9	542.7	593.0
95°	3.4	141.8	358.2	507.5	556.9
97.5°	3.4	118.3	324.6	471.4	524.2
100°	3.4	95.6	292.7	434.5	483.1
102.5°	3.4	74.7	262.5	397.6	445.4
105°	3.4	50.3	233.2	364.9	410.2
107.5°	3.4	25.2	204.7	333.0	377.4
110°	3.4	5.0	176.1	300.3	343.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.5	3.4	148.5	265.9	309.5
115°	2.5	2.5	117.4	232.3	276.0
117.5°	2.5	2.5	83.9	201.3	240.7
120°	2.5	1.7	48.6	168.6	208.0
122.5°	1.7	1.7	15.9	130.8	173.6
125°	1.7	0.8	0.8	93.1	132.5
127.5°	1.7	0.8	0.0	52.0	89.7
130°	1.7	0.8	0.0	15.1	51.2
132.5°	1.7	0.8	0.0	0.0	10.9
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)