

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: P289974

Luminaire Tested: **8SSRK-LW-80-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289974
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-L940-CD1-U
Description: 8000 LUMEN, 8 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: 6498.7 lumens
Efficiency: N/A
Efficacy: 114.7 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

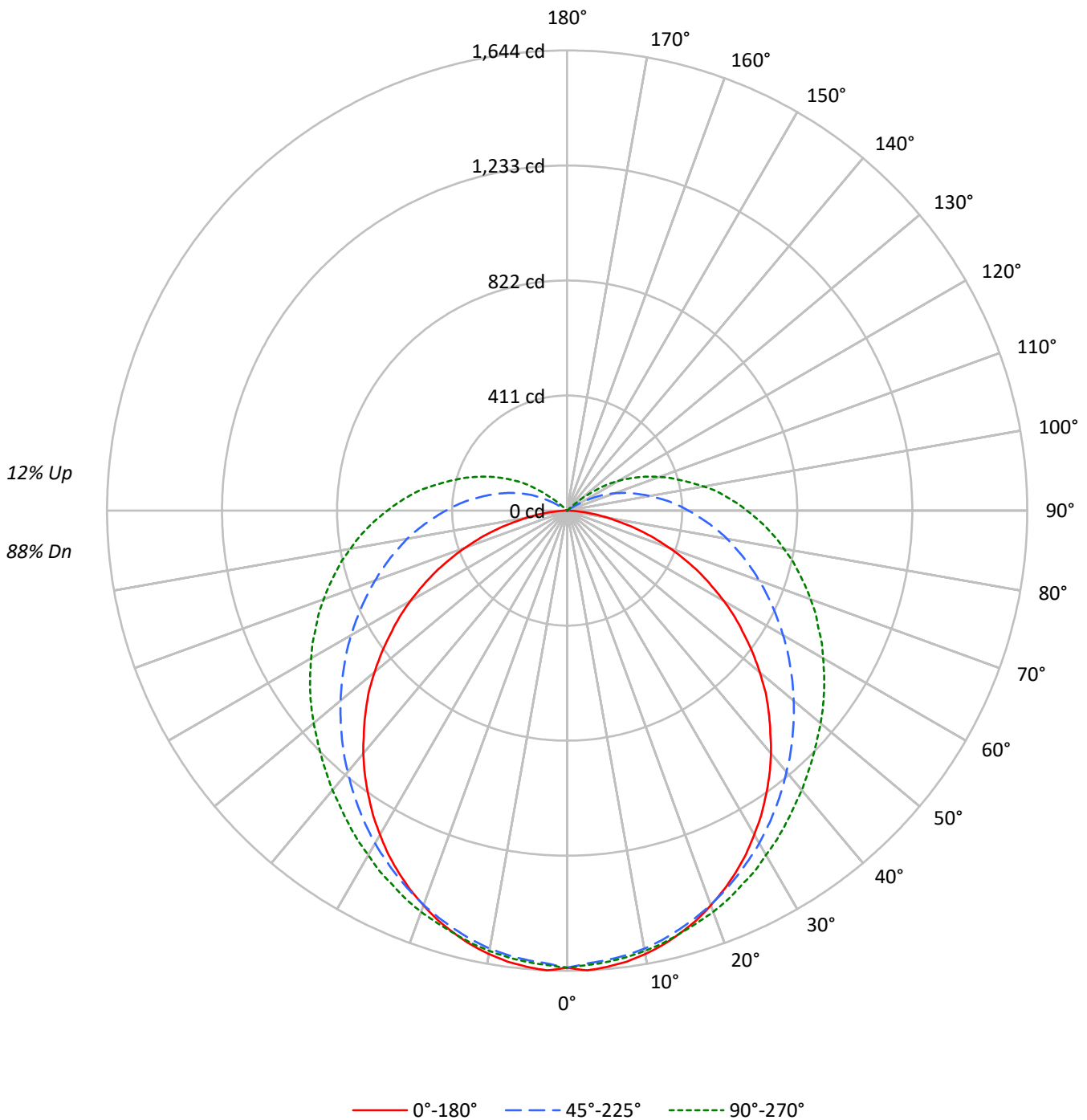
Input Watts (W): 56.6491
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	52735	52735	52735
5°	52954	41857	38885
10°	52569	34711	30724
15°	51952	29390	25229
20°	51185	25317	21348
25°	50323	22045	18353
30°	49249	19378	16009
35°	48132	17110	14141
40°	46944	15177	12619
45°	45581	13536	11346
50°	44005	12097	10297
55°	42179	10828	9403
60°	40324	9712	8601
65°	37953	8713	7902
70°	34676	7824	7285
75°	30330	7025	6709
80°	24148	6306	6172
85°	15680	5578	5682



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.2	2.4
10°-20°	440.2	6.8
20°-30°	667.5	10.3
30°-40°	814.6	12.5
40°-50°	877.4	13.5
50°-60°	861.7	13.3
60°-70°	778.6	12.0
70°-80°	648.2	10.0
80°-90°	497.2	7.7
90°-100°	360.0	5.5
100°-110°	232.5	3.6
110°-120°	125.3	1.9
120°-130°	39.7	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°	1261.9	19.4
0°-40°	2076.6	32.0
0°-60°	3815.7	58.7
0°-90°	5739.7	88.3
90°-120°	717.8	11.0
90°-150°	759.0	11.7
90°-180°	759.0	11.7
0°-180°	6498.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1633	1633	1633	1633	1633	
5°	1637	1630	1612	1624	1619	155
15°	1563	1559	1549	1566	1564	441
25°	1426	1428	1439	1470	1476	657
35°	1239	1255	1298	1350	1363	775
45°	1019	1058	1139	1214	1242	786
55°	772	848	973	1082	1121	691
65°	519	631	809	945	990	512
75°	262	435	654	805	856	277
85°	52	266	504	662	716	63
90°	2	200	433	588	642	3
95°	3	145	367	520	570	3
105°	3	52	239	374	420	4
115°	3	3	120	238	283	3
125°	2	1	1	95	136	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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CATALOG NUMBER: 8SSRK-LW-80-L940-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1633.1	1633.1	1633.1	1633.1	1633.1
2.5°	1644.3	1637.4	1619.4	1630.5	1625.4
5°	1636.6	1630.5	1612.5	1624.5	1619.4
7.5°	1625.4	1619.4	1602.2	1614.2	1609.9
10°	1609.1	1603.0	1589.3	1601.3	1597.9
12.5°	1588.4	1584.1	1571.3	1585.9	1582.4
15°	1562.7	1559.2	1548.9	1566.1	1563.5
17.5°	1535.2	1531.7	1525.7	1543.8	1544.6
20°	1500.8	1500.0	1499.1	1522.3	1525.7
22.5°	1465.6	1466.5	1469.9	1498.2	1503.4
25°	1426.1	1427.8	1439.0	1469.9	1475.9
27.5°	1384.0	1390.0	1406.3	1442.4	1451.8
30°	1336.7	1347.0	1372.8	1410.6	1420.9
32.5°	1290.3	1301.5	1335.9	1380.5	1394.3
35°	1238.8	1255.1	1298.1	1349.6	1363.4
37.5°	1187.3	1206.2	1259.4	1315.3	1332.4
40°	1133.1	1158.0	1219.0	1281.7	1304.1
42.5°	1074.7	1109.9	1180.4	1247.4	1272.3
45°	1018.9	1057.5	1139.1	1213.9	1242.2
47.5°	961.3	1007.7	1097.9	1181.2	1211.3
50°	897.7	953.6	1056.7	1148.6	1182.1
52.5°	835.9	902.0	1015.4	1115.1	1152.0
55°	771.5	847.9	973.3	1081.6	1121.1
57.5°	711.3	792.9	933.0	1046.4	1088.5
60°	646.9	739.7	890.9	1013.7	1055.8
62.5°	581.6	686.4	849.6	978.5	1025.7
65°	518.9	631.4	809.3	945.0	990.5
67.5°	451.9	581.6	769.7	908.9	960.5
70°	388.3	530.1	730.2	874.5	925.2
72.5°	324.7	480.2	691.6	840.2	891.7
75°	262.0	434.7	653.8	805.0	856.5
77.5°	199.3	386.6	615.1	769.7	823.9
80°	145.2	344.5	580.7	733.7	786.1
82.5°	98.8	305.0	542.1	699.3	752.6
85°	52.4	266.3	504.3	661.5	716.5
87.5°	15.5	232.0	467.3	624.6	679.5
90°	1.7	200.2	433.0	588.5	641.7
92.5°	2.6	172.7	400.3	555.8	607.4
95°	3.4	145.2	366.8	519.7	570.4
97.5°	3.4	121.1	332.5	482.8	536.9
100°	3.4	97.9	299.8	445.0	494.8
102.5°	3.4	76.5	268.9	407.2	456.2
105°	3.4	51.5	238.8	373.7	420.1
107.5°	3.4	25.8	209.6	341.1	386.6
110°	3.4	5.2	180.4	307.6	351.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.6	3.4	152.1	272.3	317.0
115°	2.6	2.6	120.3	238.0	282.6
117.5°	2.6	2.6	85.9	206.2	246.6
120°	2.6	1.7	49.8	172.7	213.1
122.5°	1.7	1.7	16.3	134.0	177.8
125°	1.7	0.9	0.9	95.4	135.7
127.5°	1.7	0.9	0.0	53.3	91.9
130°	1.7	0.9	0.0	15.5	52.4
132.5°	1.7	0.9	0.0	0.0	11.2
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)