

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: P290502

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290502
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: 8SSRK-SLW-80-L940-CD1-U
Description: 8000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH SQUARE FROSTED LENS AND 90 CRI 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6897.8 lumens
Efficiency: N/A
Efficacy: 121.8 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.23 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')
CIE Type: Direct

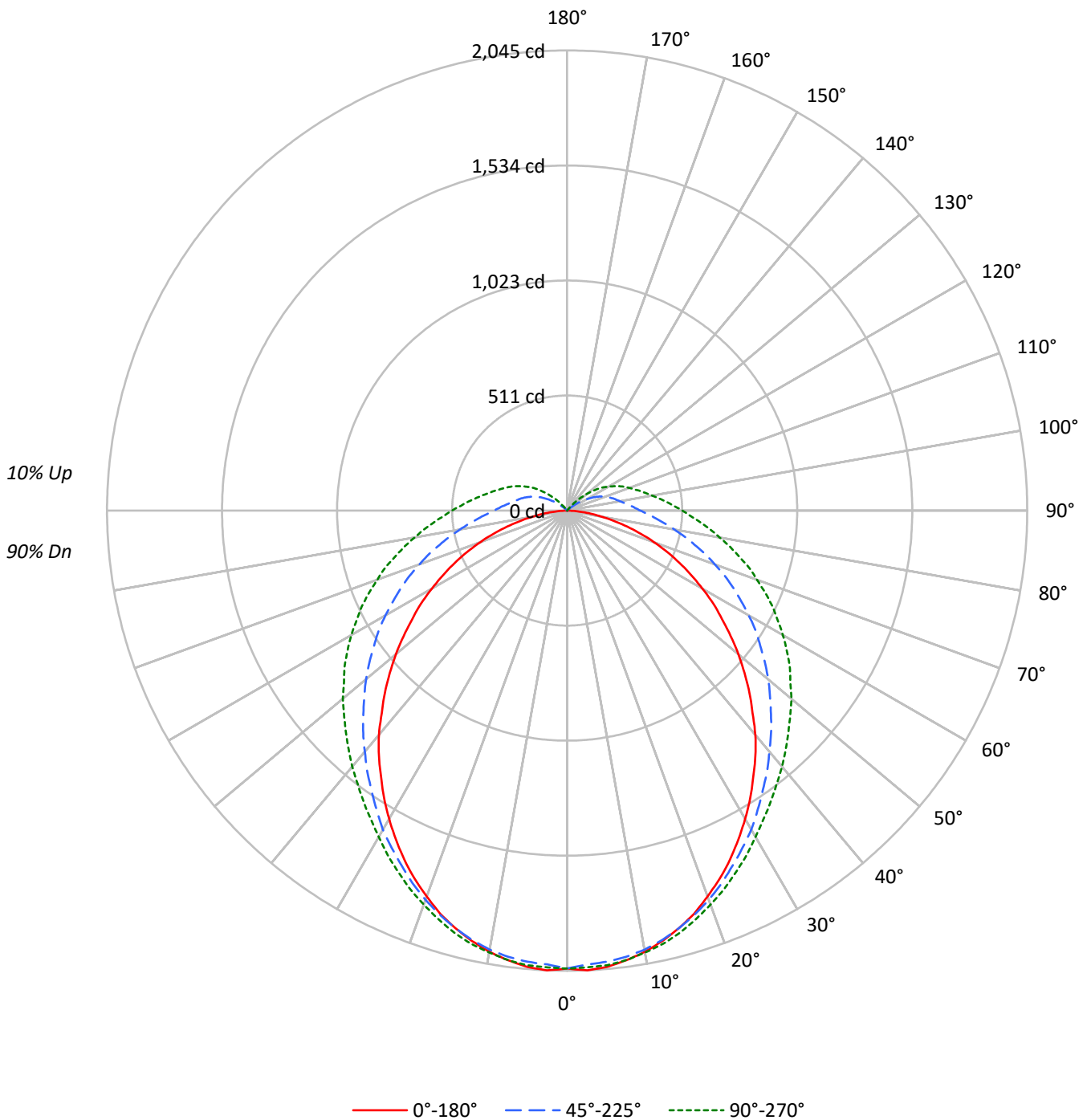
Input Watts (W): 56.6491
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	65716	65716	65716
5°	65847	52246	48701
10°	65055	43266	38354
15°	63857	36447	31327
20°	62228	31089	26072
25°	60415	26662	22059
30°	58302	23112	18864
35°	56039	19985	16367
40°	53920	17412	14381
45°	51266	15219	12703
50°	48721	13355	11337
55°	45930	11650	10130
60°	43266	10161	9020
65°	40271	8776	8032
70°	36668	7483	7069
75°	31928	6296	6197
80°	25861	5243	5403
85°	18254	4371	4707



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.3	2.8
10°-20°	543.9	7.9
20°-30°	804.7	11.7
30°-40°	950.3	13.8
40°-50°	987.9	14.3
50°-60°	931.4	13.5
60°-70°	793.9	11.5
70°-80°	600.4	8.7
80°-90°	405.2	5.9
90°-100°	278.2	4.0
100°-110°	199.5	2.9
110°-120°	128.0	1.9
120°-130°	65.3	0.9
130°-140°	16.6	0.2
140°-150°	0.2	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1540.9	22.3
0°-40°	2491.2	36.1
0°-60°	4410.5	63.9
0°-90°	6210.0	90.0
90°-120°	605.6	8.8
90°-150°	687.7	10.0
90°-180°	688.0	10.0
0°-180°	6897.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2035	2035	2035	2035	2035	
5°	2035	2030	2013	2032	2028	193
15°	1921	1927	1921	1940	1941	541
25°	1712	1732	1740	1770	1774	788
35°	1442	1477	1516	1562	1578	903
45°	1146	1203	1281	1360	1391	884
55°	840	927	1047	1160	1208	754
65°	551	662	815	950	1007	546
75°	276	410	586	735	791	295
85°	61	205	395	541	594	70
90°	1	145	325	463	512	4
95°	1	115	277	399	443	1
105°	2	74	210	302	336	2
115°	2	9	145	228	256	2
125°	2	3	61	142	170	2
135°	2	1	1	45	66	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°	2035.1	2035.1	2035.1	2035.1	2035.1
2.5°	2045.4	2038.5	2018.8	2035.9	2031.6
5°	2035.1	2029.9	2012.7	2031.6	2028.2
7.5°	2015.3	2014.5	2000.7	2020.5	2014.5
10°	1991.3	1992.1	1981.0	2000.7	1994.7
12.5°	1958.6	1962.1	1954.3	1973.2	1972.4
15°	1920.8	1926.8	1920.8	1939.7	1941.4
17.5°	1877.9	1887.3	1883.0	1906.2	1903.6
20°	1824.6	1837.5	1840.9	1864.1	1863.3
22.5°	1771.4	1787.7	1793.7	1817.7	1821.2
25°	1712.1	1731.8	1740.4	1770.5	1773.9
27.5°	1647.7	1673.4	1688.9	1719.0	1726.7
30°	1582.4	1609.9	1637.3	1667.4	1674.3
32.5°	1514.5	1544.6	1576.4	1617.6	1625.3
35°	1442.3	1476.7	1516.2	1561.7	1578.1
37.5°	1374.5	1413.1	1459.5	1512.8	1530.0
40°	1301.5	1341.0	1398.5	1458.7	1486.2
42.5°	1219.8	1273.1	1341.8	1414.0	1438.0
45°	1146.0	1202.7	1280.8	1359.9	1390.8
47.5°	1068.7	1134.8	1223.3	1310.9	1344.4
50°	993.9	1066.1	1166.6	1261.1	1301.5
52.5°	916.6	998.2	1107.3	1212.1	1249.9
55°	840.1	926.9	1047.2	1159.7	1207.8
57.5°	771.4	859.9	993.1	1108.2	1157.1
60°	694.1	796.3	932.1	1055.8	1107.3
62.5°	622.8	726.8	871.9	1003.4	1054.9
65°	550.6	662.3	815.2	950.1	1006.8
67.5°	482.8	595.3	757.7	897.7	951.8
70°	410.6	532.6	698.4	842.7	897.7
72.5°	344.5	469.9	643.4	789.5	848.7
75°	275.8	409.8	585.9	735.3	791.2
77.5°	214.8	351.4	534.3	684.7	740.5
80°	155.5	298.1	482.8	634.0	688.1
82.5°	105.7	249.1	437.3	587.6	640.8
85°	61.0	205.3	395.2	541.2	593.6
87.5°	23.2	171.0	357.4	500.8	548.9
90°	0.9	145.2	324.7	463.0	512.0
92.5°	0.9	127.1	299.8	428.7	474.2
95°	0.9	115.1	276.6	398.6	443.3
97.5°	1.7	105.7	256.0	372.0	411.5
100°	1.7	96.2	238.8	346.2	384.0
102.5°	1.7	86.8	223.4	323.0	358.2
105°	1.7	73.9	209.6	301.5	335.9
107.5°	1.7	57.6	194.1	283.5	313.6
110°	1.7	42.1	177.8	265.4	294.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.7	25.8	163.2	247.4	275.8
115°	1.7	9.4	145.2	227.6	256.0
117.5°	1.7	3.4	123.7	208.7	233.7
120°	1.7	2.6	103.1	188.1	213.0
122.5°	1.7	2.6	81.6	165.8	192.4
125°	1.7	2.6	61.0	141.7	170.1
127.5°	1.7	1.7	39.5	116.8	142.6
130°	1.7	1.7	18.9	92.8	117.7
132.5°	1.7	1.7	0.9	67.9	91.9
135°	1.7	0.9	0.9	44.7	66.1
137.5°	1.7	0.9	0.0	21.5	43.0
140°	1.7	0.9	0.0	0.0	17.2
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)