

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: P289979

Luminaire Tested: **8SSRK-LW-80-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289979
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-L850-CD1-U
Description: 8000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH ROUND FROSTED LENS AND 80 CRI 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7681.7 lumens
Efficiency: N/A
Efficacy: 135.6 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

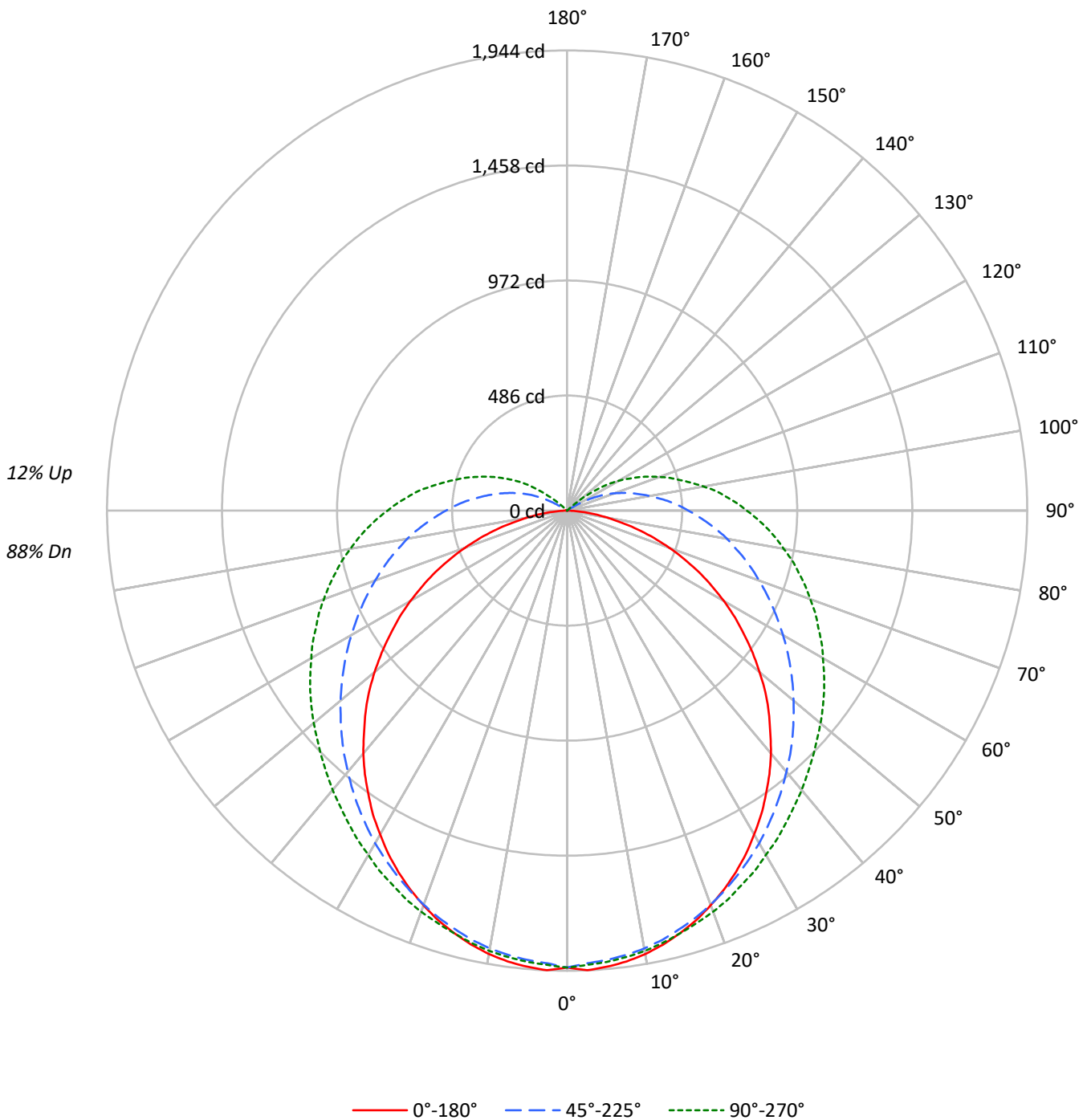
Input Watts (W): 56.6491
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P289979

CATALOG NUMBER: 8SSRK-LW-80-L850-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P289979

CATALOG NUMBER: 8SSRK-LW-80-L850-CD1-U

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°	62335	62335	62335
5°	62592	49476	45961
10°	62138	41030	36318
15°	61407	34741	29821
20°	60503	29925	25236
25°	59483	26057	21695
30°	58217	22906	18924
35°	56894	20224	16714
40°	55490	17940	14916
45°	53874	16000	13412
50°	52020	14298	12172
55°	49855	12800	11115
60°	47660	11479	10166
65°	44857	10299	9340
70°	40990	9248	8612
75°	35852	8304	7930
80°	28539	7455	7295
85°	18523	6593	6716



TEST NUMBER: P289979

CATALOG NUMBER: 8SSRK-LW-80-L850-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.3	2.4
10°-20°	520.3	6.8
20°-30°	789.0	10.3
30°-40°	962.9	12.5
40°-50°	1037.1	13.5
50°-60°	1018.6	13.3
60°-70°	920.4	12.0
70°-80°	766.2	10.0
80°-90°	587.7	7.7
90°-100°	425.5	5.5
100°-110°	274.9	3.6
110°-120°	148.1	1.9
120°-130°	46.9	0.6
130°-140°	1.8	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°	1491.6	19.4
0°-40°	2454.6	32.0
0°-60°	4510.3	58.7
0°-90°	6784.6	88.3
90°-120°	848.5	11.0
90°-150°	897.1	11.7
90°-180°	897.0	11.7
0°-180°	7681.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1930	1930	1930	1930	1930	
5°	1934	1927	1906	1920	1914	184
15°	1847	1843	1831	1851	1848	521
25°	1686	1688	1701	1738	1745	776
35°	1464	1484	1534	1595	1612	916
45°	1204	1250	1346	1435	1468	929
55°	912	1002	1150	1278	1325	817
65°	613	746	957	1117	1171	605
75°	310	514	773	952	1012	328
85°	62	315	596	782	847	74
90°	2	237	512	696	759	3
95°	4	172	434	614	674	3
105°	4	61	282	442	497	4
115°	3	3	142	281	334	3
125°	2	1	1	113	160	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



TEST NUMBER: P289979

CATALOG NUMBER: 8SSRK-LW-80-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1930.4	1930.4	1930.4	1930.4	1930.4
2.5°	1943.6	1935.5	1914.1	1927.3	1921.3
5°	1934.5	1927.3	1906.0	1920.2	1914.1
7.5°	1921.3	1914.1	1893.8	1908.1	1903.0
10°	1902.0	1894.9	1878.6	1892.8	1888.8
12.5°	1877.6	1872.5	1857.3	1874.5	1870.5
15°	1847.1	1843.1	1830.9	1851.2	1848.1
17.5°	1814.6	1810.6	1803.5	1824.8	1825.8
20°	1774.0	1773.0	1772.0	1799.4	1803.5
22.5°	1732.4	1733.4	1737.5	1771.0	1777.1
25°	1685.7	1687.7	1700.9	1737.5	1744.6
27.5°	1635.9	1643.0	1662.3	1705.0	1716.1
30°	1580.1	1592.2	1622.7	1667.4	1679.6
32.5°	1525.2	1538.4	1579.0	1631.8	1648.1
35°	1464.3	1483.6	1534.4	1595.3	1611.5
37.5°	1403.4	1425.7	1488.7	1554.7	1575.0
40°	1339.4	1368.8	1440.9	1515.1	1541.5
42.5°	1270.3	1312.0	1395.2	1474.5	1503.9
45°	1204.3	1250.0	1346.5	1434.8	1468.4
47.5°	1136.3	1191.1	1297.8	1396.3	1431.8
50°	1061.2	1127.2	1249.0	1357.7	1397.3
52.5°	988.0	1066.2	1200.3	1318.1	1361.7
55°	911.9	1002.3	1150.5	1278.5	1325.2
57.5°	840.8	937.3	1102.8	1236.8	1286.6
60°	764.6	874.3	1053.0	1198.2	1248.0
62.5°	687.5	811.4	1004.3	1156.6	1212.5
65°	613.3	746.4	956.6	1117.0	1170.8
67.5°	534.1	687.5	909.9	1074.4	1135.3
70°	459.0	626.5	863.1	1033.7	1093.7
72.5°	383.8	567.6	817.4	993.1	1054.1
75°	309.7	513.8	772.8	951.5	1012.4
77.5°	235.6	457.0	727.1	909.9	973.8
80°	171.6	407.2	686.5	867.2	929.1
82.5°	116.8	360.5	640.8	826.6	889.5
85°	61.9	314.8	596.1	781.9	846.9
87.5°	18.3	274.2	552.4	738.2	803.2
90°	2.0	236.6	511.8	695.6	758.6
92.5°	3.0	204.1	473.2	657.0	717.9
95°	4.1	171.6	433.6	614.4	674.3
97.5°	4.1	143.2	393.0	570.7	634.7
100°	4.1	115.8	354.4	526.0	584.9
102.5°	4.1	90.4	317.8	481.3	539.2
105°	4.1	60.9	282.3	441.7	496.6
107.5°	4.1	30.5	247.8	403.1	457.0
110°	4.1	6.1	213.2	363.5	415.3



TEST NUMBER: P289979

CATALOG NUMBER: 8SSRK-LW-80-L850-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.0	4.1	179.7	321.9	374.7
115°	3.0	3.0	142.2	281.3	334.1
117.5°	3.0	3.0	101.5	243.7	291.4
120°	3.0	2.0	58.9	204.1	251.8
122.5°	2.0	2.0	19.3	158.4	210.2
125°	2.0	1.0	1.0	112.7	160.4
127.5°	2.0	1.0	0.0	63.0	108.7
130°	2.0	1.0	0.0	18.3	61.9
132.5°	2.0	1.0	0.0	0.0	13.2
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)