

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: P290503

Luminaire Tested: **8SSRK-SLW-80-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290503
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-L950-CD1-U
Description: 8000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH SQUARE FROSTED LENS AND 90 CRI 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

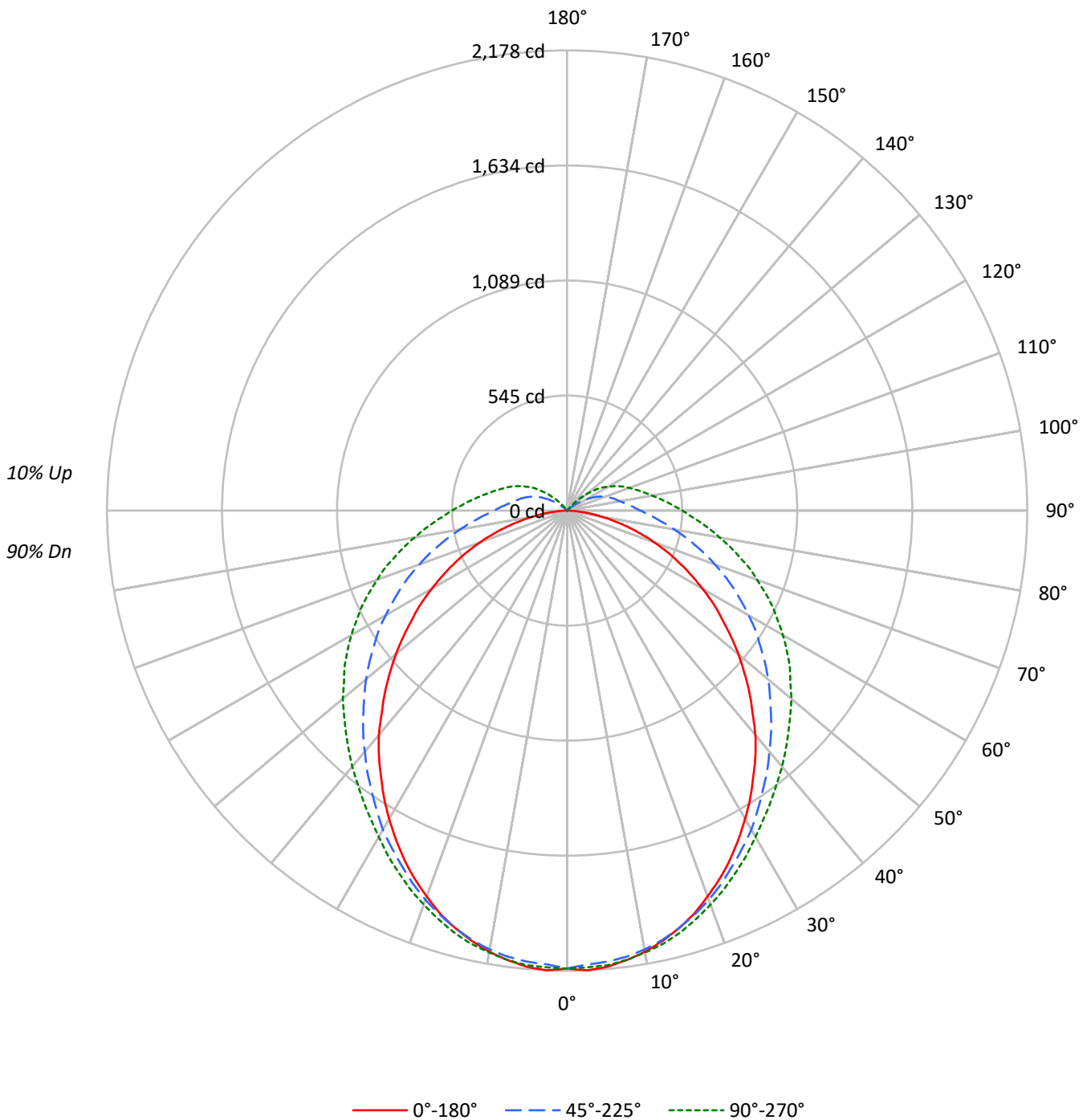
Lumens per Lamp: N/A
Luminaire Lumens: 7346.1 lumens
Efficiency: N/A
Efficacy: 129.7 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.23 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')
CIE Type: Direct

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°	69989	69989	69989
5°	70128	55644	51868
10°	69282	46077	40848
15°	68009	38817	33365
20°	66273	33110	27767
25°	64342	28396	23494
30°	62089	24615	20090
35°	59683	21284	17432
40°	57425	18544	15316
45°	54599	16209	13528
50°	51887	14223	12074
55°	48920	12408	10788
60°	46077	10821	9607
65°	42890	9347	8554
70°	39052	7970	7529
75°	34000	6705	6600
80°	27541	5584	5753
85°	19451	4655	5014



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.8	2.8
10°-20°	579.3	7.9
20°-30°	857.0	11.7
30°-40°	1012.1	13.8
40°-50°	1052.1	14.3
50°-60°	992.0	13.5
60°-70°	845.5	11.5
70°-80°	639.5	8.7
80°-90°	431.5	5.9
90°-100°	296.2	4.0
100°-110°	212.4	2.9
110°-120°	136.3	1.9
120°-130°	69.5	0.9
130°-140°	17.6	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°	1641.1	22.3
0°-40°	2653.2	36.1
0°-60°	4697.2	63.9
0°-90°	6613.8	90.0
90°-120°	645.0	8.8
90°-150°	732.4	10.0
90°-180°	732.0	10.0
0°-180°	7346.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2167	2167	2167	2167	2167	
5°	2167	2162	2144	2164	2160	205
15°	2046	2052	2046	2066	2068	576
25°	1823	1844	1854	1886	1889	839
35°	1536	1573	1615	1663	1681	962
45°	1220	1281	1364	1448	1481	941
55°	895	987	1115	1235	1286	803
65°	586	705	868	1012	1072	582
75°	294	436	624	783	843	314
85°	65	219	421	576	632	74
90°	1	155	346	493	545	4
95°	1	123	295	424	472	1
105°	2	79	223	321	358	2
115°	2	10	155	242	273	2
125°	2	3	65	151	181	2
135°	2	1	1	48	70	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°	2167.4	2167.4	2167.4	2167.4	2167.4
2.5°	2178.4	2171.0	2150.0	2168.3	2163.7
5°	2167.4	2161.9	2143.6	2163.7	2160.1
7.5°	2146.3	2145.4	2130.8	2151.8	2145.4
10°	2120.7	2121.6	2109.7	2130.8	2124.4
12.5°	2086.0	2089.6	2081.4	2101.5	2100.6
15°	2045.7	2052.1	2045.7	2065.8	2067.7
17.5°	2000.0	2010.0	2005.4	2030.2	2027.4
20°	1943.2	1957.0	1960.6	1985.3	1984.4
22.5°	1886.5	1903.9	1910.3	1935.9	1939.6
25°	1823.4	1844.4	1853.6	1885.6	1889.3
27.5°	1754.8	1782.2	1798.7	1830.7	1838.9
30°	1685.2	1714.5	1743.8	1775.8	1783.1
32.5°	1613.0	1645.0	1678.8	1722.7	1731.0
35°	1536.1	1572.7	1614.8	1663.3	1680.7
37.5°	1463.8	1505.0	1554.4	1611.1	1629.4
40°	1386.1	1428.2	1489.4	1553.5	1582.8
42.5°	1299.2	1355.9	1429.1	1505.9	1531.5
45°	1220.5	1280.9	1364.1	1448.3	1481.2
47.5°	1138.1	1208.6	1302.8	1396.1	1431.8
50°	1058.5	1135.4	1242.4	1343.1	1386.1
52.5°	976.2	1063.1	1179.3	1290.9	1331.2
55°	894.8	987.2	1115.3	1235.1	1286.3
57.5°	821.6	915.8	1057.6	1180.2	1232.4
60°	739.2	848.1	992.7	1124.4	1179.3
62.5°	663.3	774.0	928.6	1068.6	1123.5
65°	586.4	705.4	868.2	1011.9	1072.3
67.5°	514.2	634.0	806.9	956.1	1013.7
70°	437.3	567.2	743.8	897.5	956.1
72.5°	366.9	500.4	685.3	840.8	903.9
75°	293.7	436.4	624.0	783.2	842.6
77.5°	228.7	374.2	569.1	729.2	788.6
80°	165.6	317.5	514.2	675.2	732.8
82.5°	112.5	265.3	465.7	625.8	682.5
85°	65.0	218.7	420.9	576.4	632.2
87.5°	24.7	182.1	380.6	533.4	584.6
90°	0.9	154.6	345.8	493.1	545.3
92.5°	0.9	135.4	319.3	456.5	505.0
95°	0.9	122.6	294.6	424.5	472.1
97.5°	1.8	112.5	272.6	396.1	438.2
100°	1.8	102.5	254.3	368.7	409.0
102.5°	1.8	92.4	237.9	344.0	381.5
105°	1.8	78.7	223.2	321.1	357.7
107.5°	1.8	61.3	206.8	301.9	333.9
110°	1.8	44.8	189.4	282.7	313.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.8	27.4	173.8	263.5	293.7
115°	1.8	10.1	154.6	242.4	272.6
117.5°	1.8	3.7	131.7	222.3	248.9
120°	1.8	2.7	109.8	200.4	226.9
122.5°	1.8	2.7	86.9	176.6	204.9
125°	1.8	2.7	65.0	151.0	181.1
127.5°	1.8	1.8	42.1	124.4	151.9
130°	1.8	1.8	20.1	98.8	125.3
132.5°	1.8	1.8	0.9	72.3	97.9
135°	1.8	0.9	0.9	47.6	70.4
137.5°	1.8	0.9	0.0	22.9	45.7
140°	1.8	0.9	0.0	0.0	18.3
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)