

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: P289945

Luminaire Tested: **4SSRK-LW-80-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289945
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: 4SSRK-LW-80-L835-CD1-U
Description: 8000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH ROUND FROSTED LENS AND 80 CRI 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7438.9 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')
CIE Type: Semi-Direct

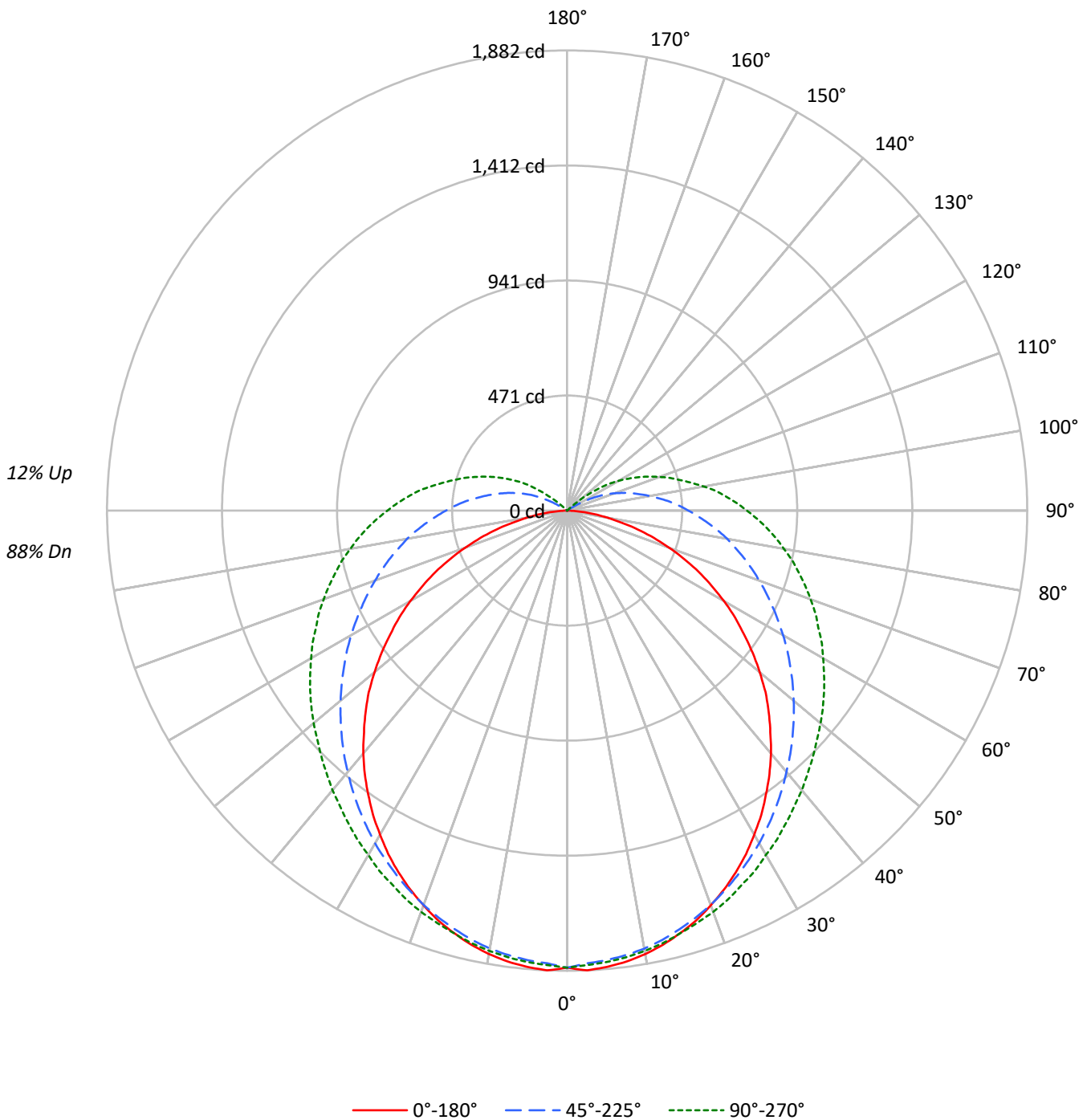
Input Watts (W): 62.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P289945

CATALOG NUMBER: 4SSRK-LW-80-L835-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P289945

CATALOG NUMBER: 4SSRK-LW-80-L835-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	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°	120731	120731	120731
5°	121004	95728	89017
10°	119903	79327	70340
15°	118274	67135	57758
20°	116304	57807	48876
25°	114107	50317	42016
30°	111425	44221	36652
35°	108628	39036	32372
40°	105661	34621	28888
45°	102262	30869	25974
50°	98362	27582	23574
55°	93850	24687	21526
60°	89209	22136	19691
65°	83327	19857	18090
70°	75312	17831	16680
75°	64763	16006	15359
80°	49998	14369	14129
85°	30117	12705	13007



TEST NUMBER: P289945

CATALOG NUMBER: 4SSRK-LW-80-L835-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.5	2.4
10°-20°	503.9	6.8
20°-30°	764.1	10.3
30°-40°	932.5	12.5
40°-50°	1004.3	13.5
50°-60°	986.4	13.3
60°-70°	891.3	12.0
70°-80°	742.0	10.0
80°-90°	569.1	7.7
90°-100°	412.0	5.5
100°-110°	266.2	3.6
110°-120°	143.5	1.9
120°-130°	45.4	0.6
130°-140°	1.7	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°	1444.5	19.4
0°-40°	2377.0	32.0
0°-60°	4367.7	58.7
0°-90°	6570.0	88.3
90°-120°	821.7	11.0
90°-150°	868.8	11.7
90°-180°	869.0	11.7
0°-180°	7438.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1869	1869	1869	1869	1869	
5°	1873	1866	1846	1860	1854	178
15°	1789	1785	1773	1793	1790	504
25°	1632	1634	1647	1682	1689	752
35°	1418	1437	1486	1545	1561	887
45°	1166	1210	1304	1390	1422	899
55°	883	971	1114	1238	1283	791
65°	594	723	926	1082	1134	586
75°	300	498	748	921	980	318
85°	60	305	577	757	820	72
90°	2	229	496	674	735	3
95°	4	166	420	595	653	3
105°	4	59	273	428	481	4
115°	3	3	138	272	324	3
125°	2	1	1	109	155	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: P289945

CATALOG NUMBER: 4SSRK-LW-80-L835-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1869.4	1869.4	1869.4	1869.4	1869.4
2.5°	1882.2	1874.3	1853.6	1866.4	1860.5
5°	1873.3	1866.4	1845.8	1859.5	1853.6
7.5°	1860.5	1853.6	1834.0	1847.7	1842.8
10°	1841.8	1835.0	1819.2	1833.0	1829.1
12.5°	1818.2	1813.3	1798.6	1815.3	1811.4
15°	1788.7	1784.8	1773.0	1792.7	1789.7
17.5°	1757.3	1753.3	1746.5	1767.1	1768.1
20°	1717.9	1716.9	1716.0	1742.5	1746.5
22.5°	1677.6	1678.6	1682.5	1715.0	1720.9
25°	1632.4	1634.3	1647.1	1682.5	1689.4
27.5°	1584.2	1591.1	1609.8	1651.1	1661.9
30°	1530.1	1541.9	1571.4	1614.7	1626.5
32.5°	1477.0	1489.8	1529.1	1580.3	1596.0
35°	1418.0	1436.7	1485.9	1544.9	1560.6
37.5°	1359.0	1380.6	1441.6	1505.5	1525.2
40°	1297.1	1325.6	1395.4	1467.2	1492.7
42.5°	1230.2	1270.5	1351.1	1427.8	1456.4
45°	1166.3	1210.5	1303.9	1389.5	1421.9
47.5°	1100.4	1153.5	1256.7	1352.1	1386.5
50°	1027.6	1091.5	1209.5	1314.8	1353.1
52.5°	956.8	1032.5	1162.3	1276.4	1318.7
55°	883.1	970.6	1114.1	1238.1	1283.3
57.5°	814.2	907.6	1067.9	1197.7	1245.9
60°	740.5	846.7	1019.7	1160.4	1208.6
62.5°	665.7	785.7	972.5	1120.0	1174.1
65°	594.0	722.8	926.3	1081.7	1133.8
67.5°	517.2	665.7	881.1	1040.4	1099.4
70°	444.5	606.7	835.9	1001.1	1059.1
72.5°	371.7	549.7	791.6	961.7	1020.7
75°	299.9	497.6	748.3	921.4	980.4
77.5°	228.1	442.5	704.1	881.1	943.0
80°	166.2	394.3	664.8	839.8	899.8
82.5°	113.1	349.1	620.5	800.5	861.4
85°	60.0	304.8	577.2	757.2	820.1
87.5°	17.7	265.5	534.9	714.9	777.8
90°	2.0	229.1	495.6	673.6	734.6
92.5°	3.0	197.7	458.2	636.2	695.2
95°	3.9	166.2	419.9	594.9	653.0
97.5°	3.9	138.7	380.6	552.6	614.6
100°	3.9	112.1	343.2	509.4	566.4
102.5°	3.9	87.5	307.8	466.1	522.2
105°	3.9	59.0	273.4	427.8	480.9
107.5°	3.9	29.5	239.9	390.4	442.5
110°	3.9	5.9	206.5	352.0	402.2



TEST NUMBER: P289945

CATALOG NUMBER: 4SSRK-LW-80-L835-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.0	3.9	174.1	311.7	362.9
115°	3.0	3.0	137.7	272.4	323.5
117.5°	3.0	3.0	98.3	236.0	282.2
120°	3.0	2.0	57.0	197.7	243.9
122.5°	2.0	2.0	18.7	153.4	203.6
125°	2.0	1.0	1.0	109.2	155.4
127.5°	2.0	1.0	0.0	61.0	105.2
130°	2.0	1.0	0.0	17.7	60.0
132.5°	2.0	1.0	0.0	0.0	12.8
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)