

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: P289977

Luminaire Tested: **8SSRK-LW-80-L835-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P289977  
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-L835-CD1-U  
Description: 8000 LUMEN, 8 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: 7553.6 lumens  
Efficiency: N/A  
Efficacy: 133.3 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

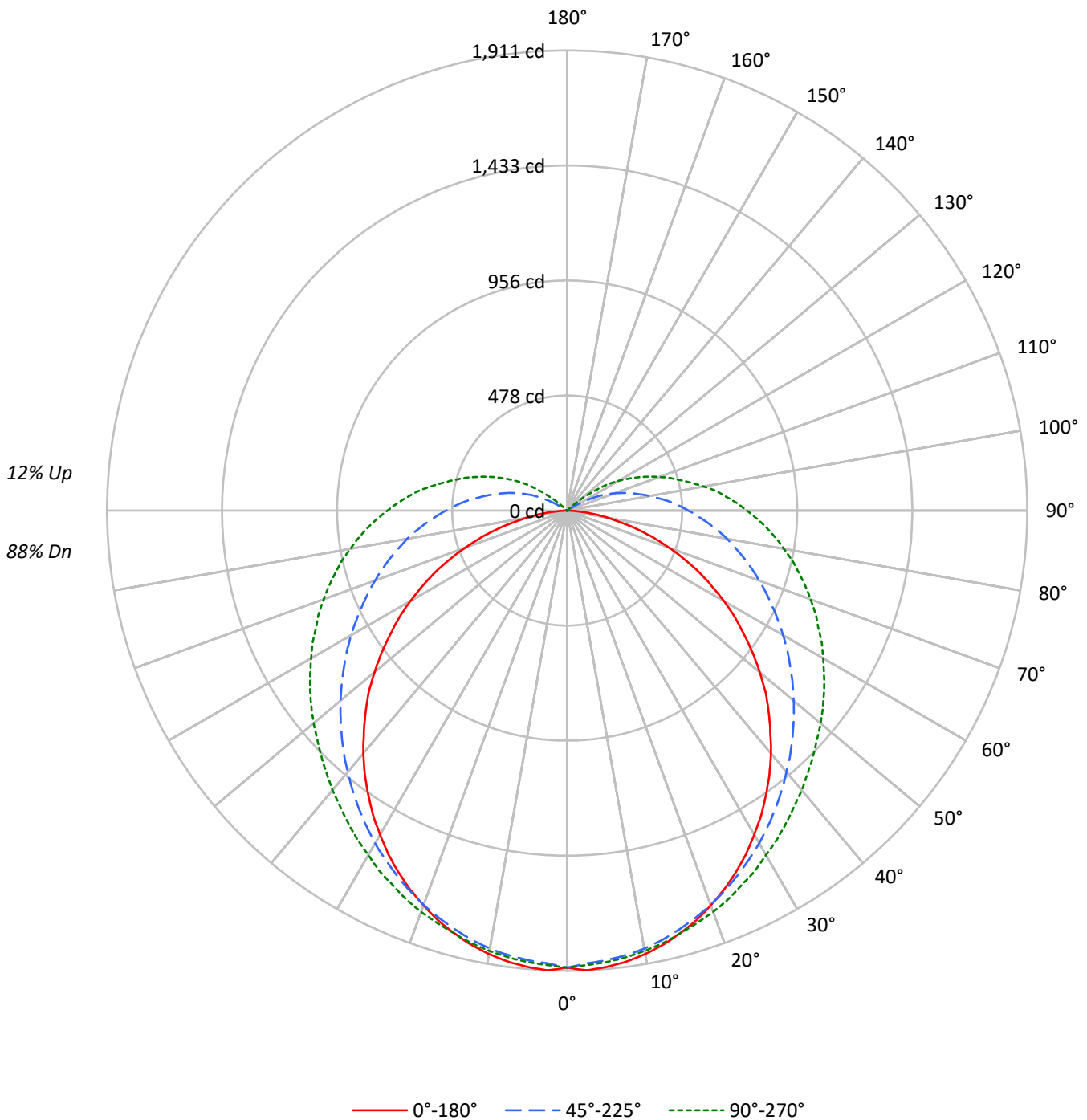
Input Watts (W): 56.6491  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	61296	61296	61296
5°	61547	48650	45195
10°	61099	40346	35712
15°	60383	34163	29324
20°	59493	29426	24814
25°	58492	25622	21333
30°	57244	22525	18609
35°	55946	19887	16436
40°	54567	17641	14667
45°	52980	15734	13188
50°	51152	14060	11969
55°	49024	12586	10929
60°	46869	11288	9997
65°	44111	10127	9184
70°	40302	9095	8468
75°	35262	8166	7798
80°	28073	7330	7174
85°	18224	6483	6604



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	179.3	2.4
10°-20°	511.7	6.8
20°-30°	775.9	10.3
30°-40°	946.9	12.5
40°-50°	1019.8	13.5
50°-60°	1001.6	13.3
60°-70°	905.0	12.0
70°-80°	753.5	10.0
80°-90°	577.9	7.7
90°-100°	418.4	5.5
100°-110°	270.3	3.6
110°-120°	145.7	1.9
120°-130°	46.1	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°	1466.8	19.4
0°-40°	2413.6	32.0
0°-60°	4435.1	58.7
0°-90°	6671.4	88.3
90°-120°	834.4	11.0
90°-150°	882.2	11.7
90°-180°	882.0	11.7
0°-180°	7553.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1898	1898	1898	1898	1898	
5°	1902	1895	1874	1888	1882	181
15°	1816	1812	1800	1820	1817	512
25°	1658	1660	1672	1708	1716	763
35°	1440	1459	1509	1569	1585	901
45°	1184	1229	1324	1411	1444	913
55°	897	986	1131	1257	1303	803
65°	603	734	941	1098	1151	595
75°	305	505	760	936	996	323
85°	61	310	586	769	833	73
90°	2	233	503	684	746	3
95°	4	169	426	604	663	3
105°	4	60	278	434	488	4
115°	3	3	140	277	328	3
125°	2	1	1	111	158	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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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1898.2	1898.2	1898.2	1898.2	1898.2
2.5°	1911.2	1903.2	1882.2	1895.2	1889.2
5°	1902.2	1895.2	1874.2	1888.2	1882.2
7.5°	1889.2	1882.2	1862.3	1876.2	1871.2
10°	1870.2	1863.3	1847.3	1861.3	1857.3
12.5°	1846.3	1841.3	1826.3	1843.3	1839.3
15°	1816.3	1812.3	1800.4	1820.3	1817.3
17.5°	1784.4	1780.4	1773.4	1794.4	1795.4
20°	1744.4	1743.4	1742.4	1769.4	1773.4
22.5°	1703.5	1704.5	1708.5	1741.4	1747.4
25°	1657.6	1659.6	1672.5	1708.5	1715.5
27.5°	1608.6	1615.6	1634.6	1676.5	1687.5
30°	1553.7	1565.7	1595.7	1639.6	1651.6
32.5°	1499.8	1512.8	1552.7	1604.6	1620.6
35°	1439.9	1458.9	1508.8	1568.7	1584.7
37.5°	1380.0	1401.9	1463.8	1528.7	1548.7
40°	1317.1	1346.0	1416.9	1489.8	1515.8
42.5°	1249.2	1290.1	1372.0	1449.9	1478.8
45°	1184.3	1229.2	1324.1	1410.9	1443.9
47.5°	1117.4	1171.3	1276.1	1373.0	1407.9
50°	1043.5	1108.4	1228.2	1335.0	1374.0
52.5°	971.6	1048.5	1180.3	1296.1	1339.0
55°	896.7	985.5	1131.3	1257.1	1303.1
57.5°	826.8	921.6	1084.4	1216.2	1265.1
60°	751.9	859.7	1035.5	1178.3	1227.2
62.5°	676.0	797.8	987.5	1137.3	1192.2
65°	603.1	733.9	940.6	1098.4	1151.3
67.5°	525.2	676.0	894.7	1056.4	1116.4
70°	451.3	616.1	848.8	1016.5	1075.4
72.5°	377.4	558.2	803.8	976.6	1036.5
75°	304.6	505.3	759.9	935.6	995.5
77.5°	231.7	449.3	714.9	894.7	957.6
80°	168.8	400.4	675.0	852.7	913.7
82.5°	114.8	354.5	630.1	812.8	874.7
85°	60.9	309.5	586.1	768.9	832.8
87.5°	18.0	269.6	543.2	725.9	789.8
90°	2.0	232.7	503.3	684.0	745.9
92.5°	3.0	200.7	465.3	646.0	706.0
95°	4.0	168.8	426.4	604.1	663.0
97.5°	4.0	140.8	386.4	561.2	624.1
100°	4.0	113.8	348.5	517.2	575.2
102.5°	4.0	88.9	312.5	473.3	530.2
105°	4.0	59.9	277.6	434.4	488.3
107.5°	4.0	30.0	243.6	396.4	449.3
110°	4.0	6.0	209.7	357.5	408.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	3.0	4.0	176.7	316.5	368.5
115°	3.0	3.0	139.8	276.6	328.5
117.5°	3.0	3.0	99.9	239.6	286.6
120°	3.0	2.0	57.9	200.7	247.6
122.5°	2.0	2.0	19.0	155.8	206.7
125°	2.0	1.0	1.0	110.8	157.8
127.5°	2.0	1.0	0.0	61.9	106.8
130°	2.0	1.0	0.0	18.0	60.9
132.5°	2.0	1.0	0.0	0.0	13.0
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)