

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: P290473

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290473  
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: 4SSRK-SLW-80-L835-CD1-U  
Description: 8000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH SQUARE FROSTED LENS AND 80 CRI 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7895.6 lumens  
Efficiency: N/A  
Efficacy: 125.5 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.23 / 1.34  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')  
CIE Type: Direct

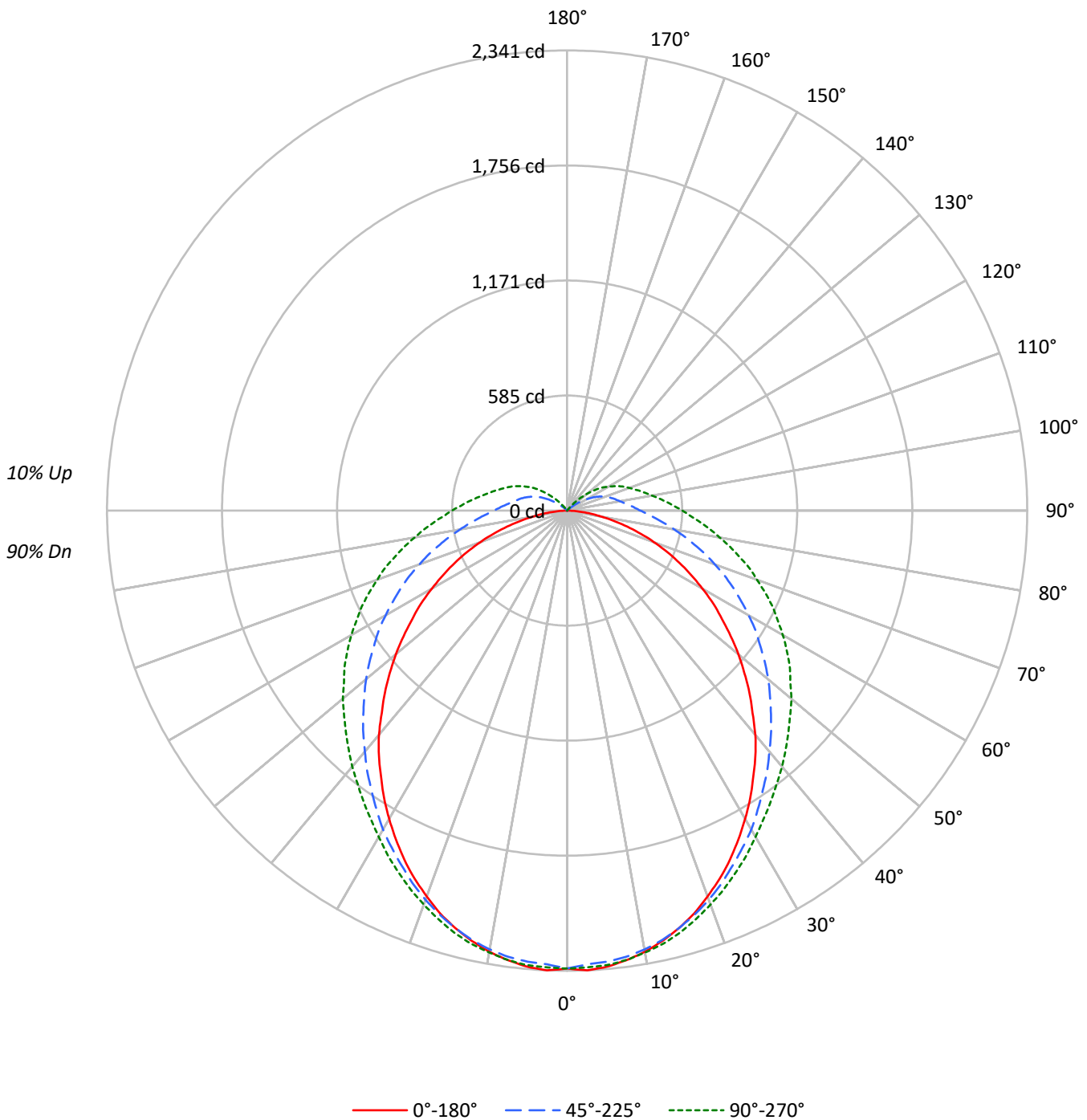
Input Watts (W): 62.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	50	30	10	0		
RCR																										
0	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	93	93	93	93	93	93	90		
1	104	99	94	89	101	96	91	87	89	86	82	84	81	78	79	76	74	74	74	74	74	74	74	71		
2	94	85	78	71	91	82	76	70	77	72	67	72	68	64	68	64	61	61	61	61	61	61	61	58		
3	86	74	66	59	82	72	64	58	68	61	55	63	58	53	60	55	51	51	51	51	51	51	51	48		
4	78	66	56	49	75	64	55	49	60	53	47	56	50	45	53	48	43	43	43	43	43	43	43	41		
5	72	59	49	42	69	57	48	42	54	46	40	50	44	39	48	42	38	38	38	38	38	38	38	35		
6	66	53	43	37	64	51	43	36	48	41	35	46	39	34	43	37	33	33	33	33	33	33	33	31		
7	61	48	39	32	59	46	38	32	44	36	31	42	35	30	39	34	29	29	29	29	29	29	29	27		
8	57	43	35	29	55	42	34	28	40	33	28	38	32	27	36	30	26	26	26	26	26	26	26	24		
9	53	40	32	26	51	39	31	26	37	30	25	35	29	24	33	28	24	24	24	24	24	24	24	22		
10	50	37	29	23	48	36	28	23	34	27	23	33	26	22	31	26	21	21	21	21	21	21	21	20		

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	150446	150446	150446
5°	150472	119486	111492
10°	148385	98876	87807
15°	145385	83254	71718
20°	141400	70989	59687
25°	136993	60859	50502
30°	131903	52742	43187
35°	126477	45596	37471
40°	121350	39717	32921
45°	115020	34710	29081
50°	108901	30453	25954
55°	102203	26561	23192
60°	95715	23161	20650
65°	88419	20005	18388
70°	79633	17053	16184
75°	68153	14344	14187
80°	53548	11944	12367
85°	35036	9955	10777



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	220.1	2.8
10°-20°	622.6	7.9
20°-30°	921.1	11.7
30°-40°	1087.8	13.8
40°-50°	1130.8	14.3
50°-60°	1066.2	13.5
60°-70°	908.8	11.5
70°-80°	687.3	8.7
80°-90°	463.8	5.9
90°-100°	318.4	4.0
100°-110°	228.3	2.9
110°-120°	146.5	1.9
120°-130°	74.7	0.9
130°-140°	19.0	0.2
140°-150°	0.3	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1763.8	22.3
0°-40°	2851.6	36.1
0°-60°	5048.6	63.9
0°-90°	7108.4	90.0
90°-120°	693.2	8.8
90°-150°	787.2	10.0
90°-180°	787.0	10.0
0°-180°	7895.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2330	2330	2330	2330	2330	
5°	2330	2324	2304	2326	2322	221
15°	2199	2206	2199	2220	2222	619
25°	1960	1982	1992	2027	2031	902
35°	1651	1690	1736	1788	1806	1034
45°	1312	1377	1466	1557	1592	1012
55°	962	1061	1199	1328	1383	863
65°	630	758	933	1088	1152	625
75°	316	469	671	842	906	337
85°	70	235	452	620	680	80
90°	1	166	372	530	586	4
95°	1	132	317	456	507	1
105°	2	85	240	345	384	2
115°	2	11	166	261	293	2
125°	2	3	70	162	195	2
135°	2	1	1	51	76	2
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°	2329.5	2329.5	2329.5	2329.5	2329.5
2.5°	2341.3	2333.4	2310.8	2330.5	2325.6
5°	2329.5	2323.6	2303.9	2325.6	2321.6
7.5°	2306.9	2305.9	2290.2	2312.8	2305.9
10°	2279.3	2280.3	2267.5	2290.2	2283.3
12.5°	2242.0	2245.9	2237.1	2258.7	2257.7
15°	2198.7	2205.6	2198.7	2220.3	2222.3
17.5°	2149.5	2160.4	2155.4	2182.0	2179.0
20°	2088.6	2103.3	2107.3	2133.8	2132.8
22.5°	2027.6	2046.3	2053.2	2080.7	2084.6
25°	1959.8	1982.4	1992.2	2026.6	2030.6
27.5°	1886.0	1915.5	1933.2	1967.6	1976.5
30°	1811.3	1842.7	1874.2	1908.6	1916.5
32.5°	1733.6	1768.0	1804.4	1851.6	1860.4
35°	1651.0	1690.3	1735.6	1787.7	1806.4
37.5°	1573.3	1617.6	1670.7	1731.6	1751.3
40°	1489.7	1535.0	1600.8	1669.7	1701.1
42.5°	1396.3	1457.3	1535.9	1618.5	1646.1
45°	1311.8	1376.7	1466.1	1556.6	1592.0
47.5°	1223.3	1299.0	1400.3	1500.5	1538.9
50°	1137.7	1220.3	1335.4	1443.5	1489.7
52.5°	1049.2	1142.6	1267.5	1387.5	1430.7
55°	961.7	1061.0	1198.7	1327.5	1382.6
57.5°	883.0	984.3	1136.7	1268.5	1324.5
60°	794.5	911.5	1066.9	1208.5	1267.5
62.5°	712.9	831.9	998.1	1148.5	1207.5
65°	630.3	758.1	933.2	1087.6	1152.5
67.5°	552.6	681.4	867.3	1027.6	1089.5
70°	470.0	609.7	799.4	964.6	1027.6
72.5°	394.3	537.9	736.5	903.7	971.5
75°	315.6	469.0	670.6	841.7	905.6
77.5°	245.8	402.2	611.6	783.7	847.6
80°	178.0	341.2	552.6	725.7	787.6
82.5°	120.9	285.2	500.5	672.6	733.6
85°	69.8	235.0	452.3	619.5	679.5
87.5°	26.5	195.7	409.1	573.3	628.3
90°	1.0	166.2	371.7	530.0	586.1
92.5°	1.0	145.5	343.2	490.7	542.8
95°	1.0	131.8	316.6	456.3	507.4
97.5°	2.0	120.9	293.0	425.8	471.0
100°	2.0	110.1	273.4	396.3	439.5
102.5°	2.0	99.3	255.7	369.7	410.0
105°	2.0	84.6	239.9	345.1	384.5
107.5°	2.0	65.9	222.2	324.5	358.9
110°	2.0	48.2	203.5	303.8	337.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2.0	29.5	186.8	283.2	315.6
115°	2.0	10.8	166.2	260.6	293.0
117.5°	2.0	3.9	141.6	238.9	267.5
120°	2.0	2.9	118.0	215.3	243.9
122.5°	2.0	2.9	93.4	189.8	220.3
125°	2.0	2.9	69.8	162.2	194.7
127.5°	2.0	2.0	45.2	133.7	163.2
130°	2.0	2.0	21.6	106.2	134.7
132.5°	2.0	2.0	1.0	77.7	105.2
135°	2.0	1.0	1.0	51.1	75.7
137.5°	2.0	1.0	0.0	24.6	49.2
140°	2.0	1.0	0.0	0.0	19.7
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)