

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: P290504

Luminaire Tested: **8SSRK-SLW-80-L830-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290504  
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-L830-CD1-U  
Description: 8000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH SQUARE FROSTED LENS AND 80 CRI 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7881.5 lumens  
Efficiency: N/A  
Efficacy: 139.1 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

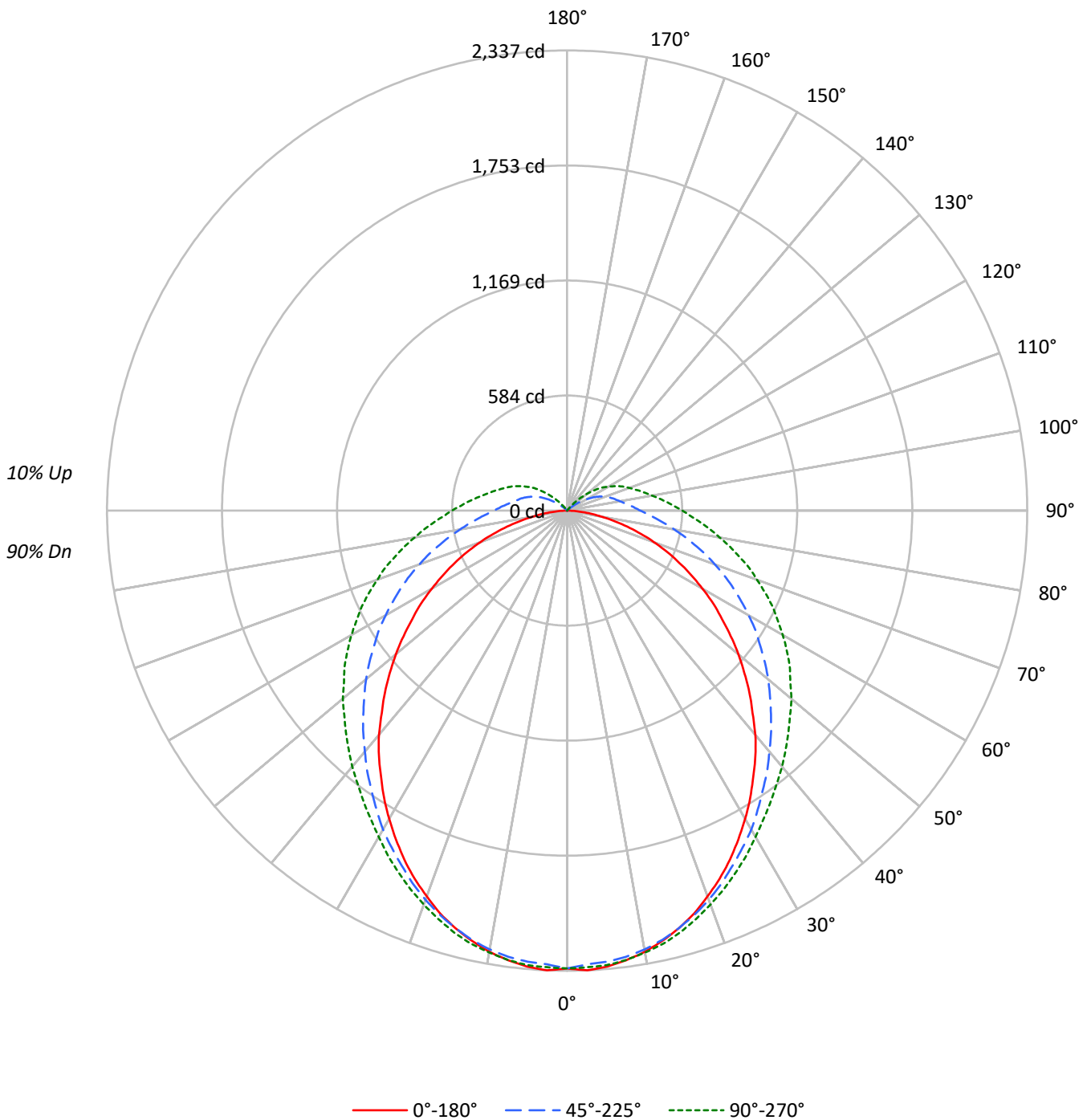
Input Watts (W): 56.6491  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	75087	75087	75087
5°	75237	59698	55647
10°	74333	49436	43825
15°	72966	41646	35795
20°	71103	35524	29790
25°	69028	30464	25205
30°	66614	26408	21555
35°	64031	22834	18701
40°	61610	19896	16431
45°	58576	17390	14514
50°	55672	15260	12954
55°	52485	13311	11575
60°	49437	11610	10306
65°	46020	10029	9177
70°	41901	8550	8077
75°	36477	7193	7081
80°	29553	5990	6173
85°	20857	4994	5379



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	219.7	2.8
10°-20°	621.5	7.9
20°-30°	919.4	11.7
30°-40°	1085.9	13.8
40°-50°	1128.8	14.3
50°-60°	1064.2	13.5
60°-70°	907.2	11.5
70°-80°	686.1	8.7
80°-90°	462.9	5.9
90°-100°	317.8	4.0
100°-110°	227.9	2.9
110°-120°	146.3	1.9
120°-130°	74.6	0.9
130°-140°	18.9	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°	1760.6	22.3
0°-40°	2846.5	36.1
0°-60°	5039.5	63.9
0°-90°	7095.6	90.0
90°-120°	692.0	8.8
90°-150°	785.8	10.0
90°-180°	786.0	10.0
0°-180°	7881.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2325	2325	2325	2325	2325	
5°	2325	2319	2300	2321	2318	220
15°	2195	2202	2195	2216	2218	618
25°	1956	1979	1989	2023	2027	900
35°	1648	1687	1732	1784	1803	1032
45°	1309	1374	1464	1554	1589	1010
55°	960	1059	1196	1325	1380	861
65°	629	757	932	1086	1150	624
75°	315	468	669	840	904	337
85°	70	235	452	618	678	80
90°	1	166	371	529	585	4
95°	1	132	316	455	506	1
105°	2	84	240	344	384	2
115°	2	11	166	260	292	2
125°	2	3	70	162	194	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°	2325.3	2325.3	2325.3	2325.3	2325.3
2.5°	2337.1	2329.2	2306.7	2326.3	2321.4
5°	2325.3	2319.4	2299.8	2321.4	2317.5
7.5°	2302.7	2301.8	2286.0	2308.6	2301.8
10°	2275.3	2276.2	2263.5	2286.0	2279.2
12.5°	2238.0	2241.9	2233.0	2254.6	2253.7
15°	2194.8	2201.6	2194.8	2216.4	2218.3
17.5°	2145.7	2156.5	2151.6	2178.1	2175.1
20°	2084.8	2099.6	2103.5	2130.0	2129.0
22.5°	2024.0	2042.6	2049.5	2077.0	2080.9
25°	1956.2	1978.8	1988.6	2023.0	2026.9
27.5°	1882.6	1912.1	1929.7	1964.1	1972.9
30°	1808.0	1839.4	1870.8	1905.2	1913.1
32.5°	1730.5	1764.8	1801.2	1848.3	1857.1
35°	1648.0	1687.3	1732.4	1784.5	1803.1
37.5°	1570.5	1614.7	1667.7	1728.5	1748.2
40°	1487.1	1532.2	1598.0	1666.7	1698.1
42.5°	1393.8	1454.7	1533.2	1615.6	1643.1
45°	1309.4	1374.2	1463.5	1553.8	1589.1
47.5°	1221.1	1296.6	1397.7	1497.9	1536.1
50°	1135.7	1218.1	1333.0	1440.9	1487.1
52.5°	1047.3	1140.6	1265.2	1385.0	1428.2
55°	960.0	1059.1	1196.5	1325.1	1380.1
57.5°	881.4	982.5	1134.7	1266.2	1322.2
60°	793.1	909.9	1065.0	1206.3	1265.2
62.5°	711.6	830.4	996.3	1146.5	1205.4
65°	629.2	756.8	931.5	1085.6	1150.4
67.5°	551.6	680.2	865.7	1025.7	1087.6
70°	469.2	608.6	798.0	962.9	1025.7
72.5°	393.6	536.9	735.2	902.1	969.8
75°	315.1	468.2	669.4	840.2	904.0
77.5°	245.4	401.5	610.5	782.3	846.1
80°	177.7	340.6	551.6	724.4	786.2
82.5°	120.7	284.7	499.6	671.4	732.2
85°	69.7	234.6	451.5	618.4	678.3
87.5°	26.5	195.3	408.3	572.2	627.2
90°	1.0	165.9	371.0	529.1	585.0
92.5°	1.0	145.3	342.6	489.8	541.8
95°	1.0	131.5	316.1	455.4	506.5
97.5°	2.0	120.7	292.5	425.0	470.2
100°	2.0	109.9	272.9	395.6	438.8
102.5°	2.0	99.1	255.2	369.1	409.3
105°	2.0	84.4	239.5	344.5	383.8
107.5°	2.0	65.8	221.8	323.9	358.3
110°	2.0	48.1	203.2	303.3	336.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2.0	29.4	186.5	282.7	315.1
115°	2.0	10.8	165.9	260.1	292.5
117.5°	2.0	3.9	141.3	238.5	267.0
120°	2.0	2.9	117.8	215.0	243.4
122.5°	2.0	2.9	93.2	189.4	219.9
125°	2.0	2.9	69.7	162.0	194.3
127.5°	2.0	2.0	45.2	133.5	162.9
130°	2.0	2.0	21.6	106.0	134.5
132.5°	2.0	2.0	1.0	77.5	105.0
135°	2.0	1.0	1.0	51.0	75.6
137.5°	2.0	1.0	0.0	24.5	49.1
140°	2.0	1.0	0.0	0.0	19.6
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)