

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: P290028

Luminaire Tested: **4SSRK-RB-80-L930-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290028  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-8)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SSRK-RB-80-L930-CD1-U  
Description: 8000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH ROUND BATWING LENS AND 90 CRI 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6417.4 lumens  
Efficiency: N/A  
Efficacy: 102.0 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.65 / 1.6  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')  
CIE Type: Direct

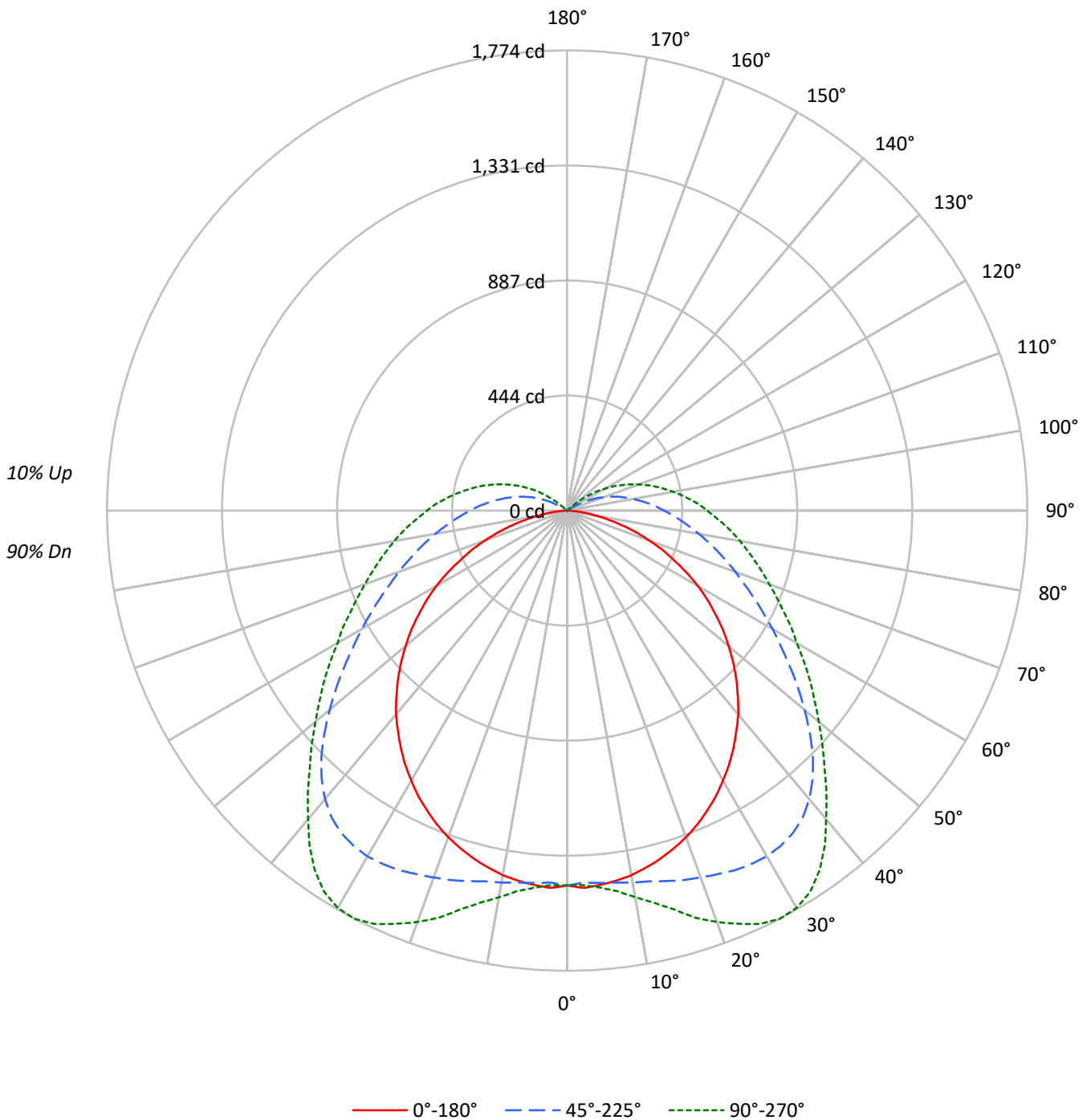
Input Watts (W): 62.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0	
RCR																						
0	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	90				
1	104	98	93	88	100	95	90	86	89	85	81	83	80	77	78	75	73	70				
2	94	84	77	70	90	82	74	68	76	70	65	71	67	62	67	63	59	57				
3	85	73	64	57	81	71	63	56	66	60	54	62	56	52	58	54	49	47				
4	77	64	55	48	74	62	54	47	59	51	45	55	49	44	52	46	42	39				
5	71	57	48	41	68	56	47	40	52	45	39	49	43	37	46	41	36	34				
6	65	51	42	35	63	50	41	35	47	39	34	44	38	32	42	36	31	29				
7	60	46	37	31	58	45	36	30	43	35	29	40	34	29	38	32	28	25				
8	56	42	33	27	54	41	33	27	39	31	26	37	30	25	35	29	25	22				
9	52	38	30	24	50	37	29	24	36	28	23	34	27	23	32	26	22	20				
10	49	35	27	22	47	34	27	22	33	26	21	31	25	20	30	24	20	18				

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

	0°	45°	90°
0°	93329	93329	93329
5°	93597	74703	70071
10°	92912	63490	58207
15°	91845	55984	51358
20°	90719	50699	47236
25°	89208	46736	43740
30°	87496	43315	39858
35°	85607	39863	35158
40°	83610	36027	30058
45°	80921	31724	25630
50°	77763	27258	22058
55°	74264	23226	19174
60°	70223	19866	16646
65°	63968	17014	14675
70°	57217	14723	13064
75°	47552	12800	11740
80°	34656	11150	10631
85°	17568	9694	9615



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	138.9	2.2
10°-20°	422.7	6.6
20°-30°	703.8	11.0
30°-40°	910.2	14.2
40°-50°	961.3	15.0
50°-60°	886.3	13.8
60°-70°	744.8	11.6
70°-80°	583.6	9.1
80°-90°	429.3	6.7
90°-100°	305.9	4.8
100°-110°	196.5	3.1
110°-120°	103.2	1.6
120°-130°	30.0	0.5
130°-140°	0.7	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°	1265.5	19.7
0°-40°	2175.6	33.9
0°-60°	4023.3	62.7
0°-90°	5781.1	90.1
90°-120°	605.6	9.4
90°-150°	636.3	9.9
90°-180°	636.0	9.9
0°-180°	6417.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1445	1445	1445	1445	1445	
5°	1449	1448	1440	1459	1459	138
15°	1389	1416	1478	1566	1591	392
25°	1276	1348	1530	1705	1759	588
35°	1118	1242	1517	1672	1695	699
45°	923	1087	1340	1398	1403	711
55°	699	868	1048	1120	1143	625
65°	456	624	794	891	920	454
75°	220	406	598	712	749	234
85°	35	237	440	566	606	46
90°	1	174	374	500	540	2
95°	2	126	314	439	478	2
105°	2	41	205	318	356	2
115°	2	2	98	198	232	2
125°	2	1	0	71	105	1
135°	0	0	0	0	0	0
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°	1445.1	1445.1	1445.1	1445.1	1445.1
2.5°	1456.0	1449.7	1435.7	1448.2	1445.1
5°	1449.0	1448.2	1440.4	1459.1	1459.1
7.5°	1439.6	1442.7	1446.6	1477.8	1480.1
10°	1427.2	1436.5	1456.0	1503.4	1513.6
12.5°	1409.3	1426.4	1463.8	1532.2	1548.6
15°	1389.0	1416.3	1478.5	1566.5	1591.4
17.5°	1365.7	1401.5	1493.3	1608.5	1645.8
20°	1340.0	1386.7	1505.0	1646.6	1687.9
22.5°	1310.5	1368.8	1517.4	1677.8	1724.4
25°	1276.2	1347.8	1529.9	1705.0	1758.7
27.5°	1242.0	1326.0	1536.9	1722.1	1774.2
30°	1201.5	1301.9	1539.2	1724.4	1768.8
32.5°	1161.8	1275.4	1532.2	1708.1	1743.1
35°	1117.5	1242.0	1517.4	1672.3	1694.9
37.5°	1071.6	1206.2	1491.8	1617.1	1631.1
40°	1026.4	1172.7	1452.1	1547.0	1553.2
42.5°	974.3	1129.9	1400.7	1473.1	1479.3
45°	922.9	1087.1	1340.0	1397.6	1403.1
47.5°	868.4	1038.1	1268.4	1322.1	1335.4
50°	812.4	984.4	1195.3	1252.1	1266.1
52.5°	757.9	929.1	1121.4	1185.9	1202.3
55°	698.8	868.4	1048.2	1119.8	1143.1
57.5°	642.0	808.5	977.4	1056.8	1082.4
60°	582.9	747.1	915.1	998.4	1021.7
62.5°	520.6	684.8	851.3	944.7	974.3
65°	456.0	624.1	793.7	891.0	919.8
67.5°	399.2	565.7	738.5	841.2	873.9
70°	337.7	509.7	690.2	796.9	829.5
72.5°	277.8	457.6	642.0	754.1	789.1
75°	220.2	406.2	598.4	712.0	749.4
77.5°	164.2	358.7	555.6	673.9	711.3
80°	115.2	315.2	515.9	637.3	677.0
82.5°	71.6	276.3	477.0	601.5	642.0
85°	35.0	237.3	440.4	565.7	606.2
87.5°	10.1	203.1	406.2	531.5	571.2
90°	0.8	174.3	373.5	500.4	540.1
92.5°	1.6	148.6	345.5	469.2	511.3
95°	2.3	126.1	314.4	438.9	477.8
97.5°	2.3	104.3	285.6	408.5	446.7
100°	2.3	83.3	257.6	376.6	415.5
102.5°	2.3	63.0	230.3	347.1	384.4
105°	2.3	41.2	204.7	318.3	355.6
107.5°	2.3	17.9	177.4	287.1	324.5
110°	2.3	3.9	151.0	258.4	294.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2.3	2.3	126.1	228.0	264.6
115°	1.6	2.3	98.1	197.7	231.9
117.5°	1.6	1.6	66.9	168.1	203.1
120°	1.6	1.6	35.0	138.5	170.4
122.5°	1.6	0.8	7.0	105.8	140.9
125°	1.6	0.8	0.0	70.8	105.1
127.5°	1.6	0.8	0.0	36.6	71.6
130°	0.8	0.8	0.0	5.4	34.2
132.5°	0.8	0.8	0.0	0.0	1.6
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)