

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: P289643

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P289643  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-1)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SSRK-TB-80-L930-CD1-U  
Description: 8000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH TRILOBE RIBBED LENS AND 90 CRI 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6258.7 lumens  
Efficiency: N/A  
Efficacy: 99.5 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.08 / 1.24  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')  
CIE Type: Direct

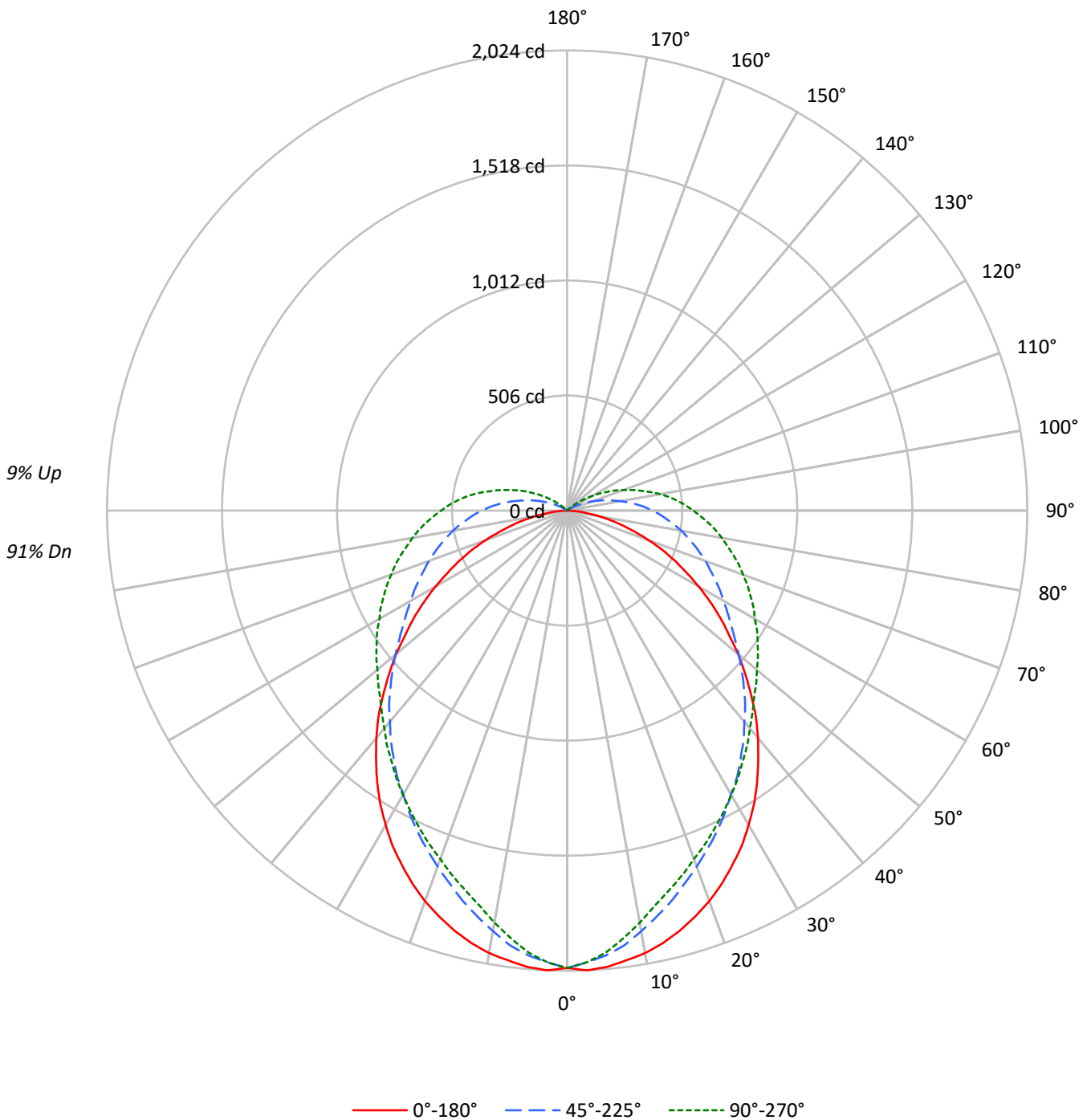
Input Watts (W): 62.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	91					91			
1	104	98	93	89	100	95	90	86	89	85	82	84	80	78	78	76	74	71					71			
2	94	85	77	71	90	82	75	69	77	71	66	72	67	63	68	64	60	58					58			
3	85	74	65	58	82	72	64	57	67	60	55	63	58	53	60	55	51	48					48			
4	78	65	56	49	75	63	55	48	60	52	47	56	50	45	53	48	43	41					41			
5	72	58	49	42	69	57	48	41	53	46	40	50	44	39	48	42	38	35					35			
6	66	53	43	37	64	51	42	36	48	41	35	46	39	34	43	38	33	31					31			
7	61	48	39	32	59	46	38	32	44	37	31	42	35	30	40	34	29	27					27			
8	57	44	35	29	55	42	34	29	40	33	28	38	32	27	36	31	26	24					24			
9	54	40	32	26	52	39	31	26	37	30	25	35	29	24	34	28	24	22					22			
10	50	37	29	24	48	36	28	23	34	28	23	33	27	22	31	26	22	20					20			

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

	0°	45°	90°
0°	129889	129889	129889
5°	130112	101842	93694
10°	128659	81900	70763
15°	126493	67279	55808
20°	123724	56123	45646
25°	120216	47604	38283
30°	116246	40554	32544
35°	111608	34945	27923
40°	106296	30095	24210
45°	100254	26019	21233
50°	93978	22462	18981
55°	87516	19510	17160
60°	80511	17258	15531
65°	73311	15413	14200
70°	64926	13782	12969
75°	54721	12329	11859
80°	42868	11021	10843
85°	27005	9689	9895



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	186.2	3.0
10°-20°	507.5	8.1
20°-30°	734.2	11.7
30°-40°	854.1	13.6
40°-50°	869.4	13.9
50°-60°	808.9	12.9
60°-70°	704.4	11.3
70°-80°	573.4	9.2
80°-90°	434.4	6.9
90°-100°	301.2	4.8
100°-110°	177.0	2.8
110°-120°	83.0	1.3
120°-130°	23.6	0.4
130°-140°	1.3	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°	1427.9	22.8
0°-40°	2282.0	36.5
0°-60°	3960.3	63.3
0°-90°	5672.5	90.6
90°-120°	561.2	9.0
90°-150°	586.2	9.4
90°-180°	586.0	9.4
0°-180°	6258.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2011	2011	2011	2011	2011	
5°	2014	1998	1964	1964	1951	191
15°	1913	1862	1777	1745	1729	539
25°	1720	1644	1558	1546	1539	792
35°	1457	1381	1330	1343	1346	910
45°	1143	1099	1099	1143	1162	883
55°	824	820	880	985	1023	735
65°	523	567	719	846	890	518
75°	253	371	576	710	757	270
85°	54	231	440	580	624	62
90°	0	168	374	510	554	3
95°	0	108	307	443	488	0
105°	0	25	174	295	336	0
115°	0	0	70	162	196	0
125°	0	0	3	54	79	0
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°	3	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°	2011.2	2011.2	2011.2	2011.2	2011.2
2.5°	2023.8	2014.3	1989.0	1998.5	1989.0
5°	2014.3	1998.5	1963.7	1963.7	1951.0
7.5°	1995.3	1976.3	1928.8	1913.0	1897.2
10°	1976.3	1947.8	1878.2	1859.1	1840.1
12.5°	1947.8	1906.7	1827.5	1799.0	1780.0
15°	1913.0	1862.3	1776.8	1745.1	1729.3
17.5°	1871.8	1814.8	1719.8	1694.5	1681.8
20°	1827.5	1761.0	1666.0	1643.8	1631.1
22.5°	1776.8	1700.8	1612.1	1596.3	1586.8
25°	1719.8	1643.8	1558.3	1545.6	1539.3
27.5°	1662.8	1580.4	1501.3	1494.9	1491.8
30°	1596.3	1517.1	1441.1	1444.2	1444.2
32.5°	1529.8	1450.6	1390.4	1396.7	1396.7
35°	1456.9	1380.9	1330.2	1342.9	1346.1
37.5°	1380.9	1314.4	1273.2	1292.2	1301.7
40°	1304.9	1244.7	1213.0	1241.5	1251.0
42.5°	1228.9	1171.9	1159.2	1194.0	1206.7
45°	1143.4	1099.0	1099.0	1143.4	1162.4
47.5°	1061.0	1032.5	1042.0	1099.0	1127.5
50°	981.8	959.7	985.0	1057.8	1089.5
52.5°	896.3	890.0	931.2	1019.8	1057.8
55°	823.5	820.3	880.5	985.0	1023.0
57.5°	744.3	753.8	836.1	950.2	991.3
60°	668.3	687.3	795.0	915.3	953.3
62.5°	592.3	630.3	757.0	880.5	924.8
65°	522.6	566.9	719.0	845.6	890.0
67.5°	452.9	509.9	680.9	814.0	858.3
70°	383.2	459.2	646.1	779.1	823.5
72.5°	313.6	414.9	611.3	744.3	791.8
75°	253.4	370.6	576.4	709.5	757.0
77.5°	196.4	335.7	541.6	680.9	722.1
80°	142.5	297.7	509.9	646.1	690.5
82.5°	91.8	266.0	475.1	611.3	658.8
85°	53.8	231.2	440.2	579.6	623.9
87.5°	22.2	196.4	408.6	544.8	589.1
90°	0.0	167.9	373.7	509.9	554.3
92.5°	0.0	139.4	342.1	478.2	522.6
95°	0.0	107.7	307.2	443.4	487.7
97.5°	0.0	82.3	272.4	408.6	452.9
100°	0.0	63.3	237.5	367.4	414.9
102.5°	0.0	44.3	202.7	329.4	376.9
105°	0.0	25.3	174.2	294.6	335.7
107.5°	0.0	12.7	145.7	259.7	300.9
110°	0.0	3.2	117.2	224.9	262.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	91.8	193.2	231.2
115°	0.0	0.0	69.7	161.5	196.4
117.5°	0.0	0.0	47.5	133.0	164.7
120°	0.0	0.0	28.5	104.5	133.0
122.5°	0.0	0.0	12.7	79.2	104.5
125°	0.0	0.0	3.2	53.8	79.2
127.5°	0.0	0.0	0.0	31.7	53.8
130°	0.0	0.0	0.0	15.8	31.7
132.5°	0.0	0.0	0.0	3.2	12.7
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°	3.2	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)