

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: P290166

Luminaire Tested: **8SSRK-LN-12-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290166
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-10)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SSRK-LN-12-L940-CD1-U
Description: 12000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH ROUND NARROW LENS AND 90 CRI 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9953.0 lumens
Efficiency: N/A
Efficacy: 123.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.03 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')
CIE Type: Direct

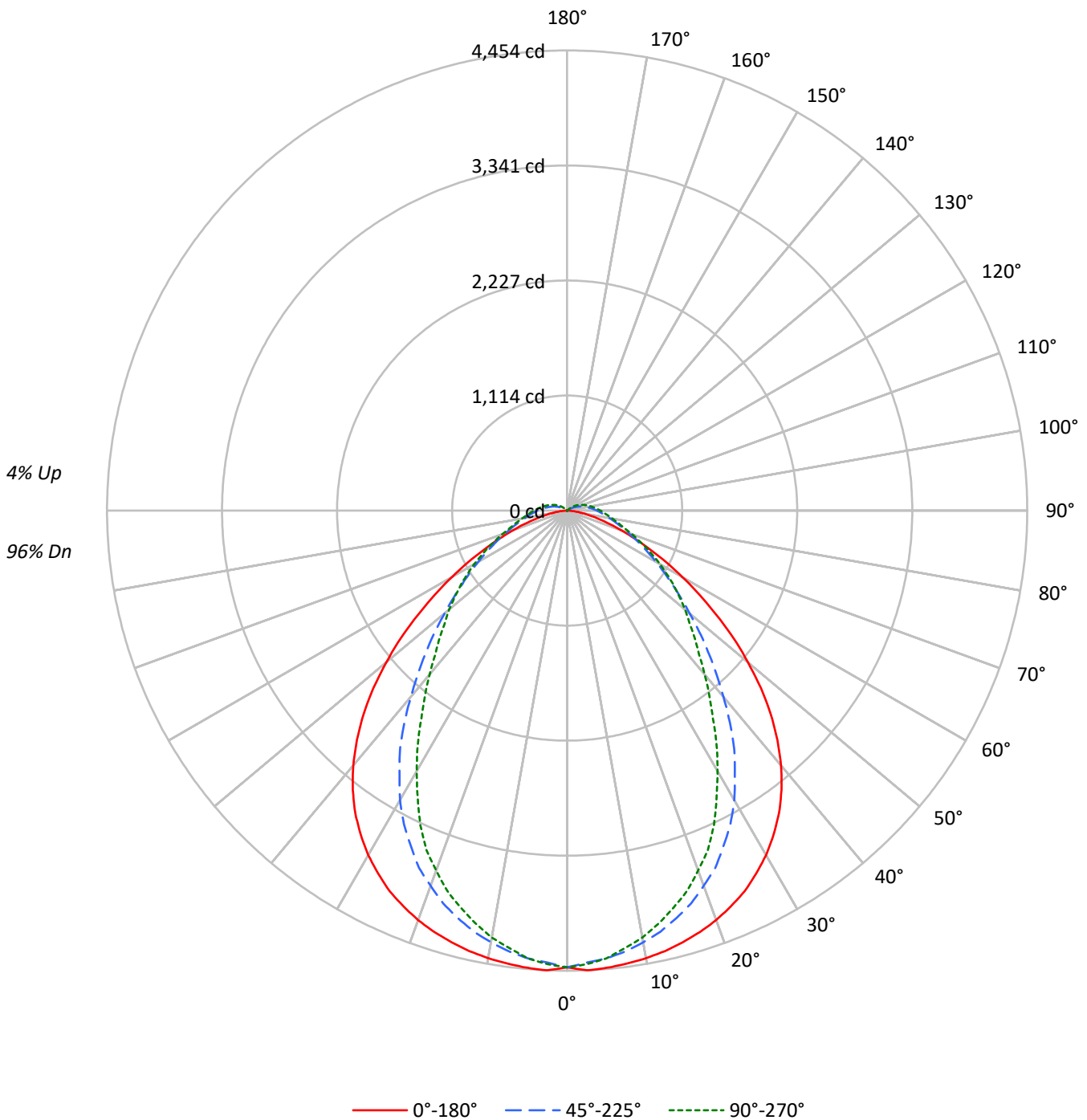
Input Watts (W): 80.8951
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	96				
1	108	104	99	96	105	101	97	94	96	93	90	91	89	86	87	85	83	81				
2	99	91	85	80	96	89	83	78	85	80	76	81	77	74	78	74	71	69				
3	91	81	74	68	88	79	72	67	76	70	65	73	68	63	70	65	62	59				
4	84	73	65	58	81	71	64	58	68	62	56	65	60	55	63	58	54	52				
5	78	66	57	51	75	64	56	51	62	55	50	59	53	49	57	52	48	46				
6	72	60	51	45	70	58	51	45	56	49	44	54	48	43	52	47	43	41				
7	67	54	46	40	65	53	46	40	52	45	39	50	44	39	48	43	38	36				
8	63	50	42	36	61	49	41	36	47	41	36	46	40	35	44	39	35	33				
9	59	46	38	33	57	45	38	33	44	37	32	43	36	32	41	36	32	30				
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	38	33	29	27				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	142764	142764	142764
5°	143731	112941	104473
10°	143710	92674	80689
15°	143788	77494	64199
20°	143836	65274	51872
25°	143452	54871	41790
30°	141889	45671	32799
35°	138941	37199	25531
40°	133506	29294	20059
45°	124730	22894	15941
50°	111887	17702	12980
55°	96441	13778	10544
60°	80336	10807	8477
65°	64042	8506	6696
70°	49965	6735	5263
75°	37403	5472	4190
80°	27059	4512	3474
85°	16818	3806	2961



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	415.1	4.2
10°-20°	1162.3	11.7
20°-30°	1675.1	16.8
30°-40°	1814.5	18.2
40°-50°	1607.1	16.1
50°-60°	1222.9	12.3
60°-70°	814.7	8.2
70°-80°	503.3	5.1
80°-90°	315.4	3.2
90°-100°	207.2	2.1
100°-110°	127.0	1.3
110°-120°	65.5	0.7
120°-130°	21.5	0.2
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°	3252.5	32.7
0°-40°	5067.0	50.9
0°-60°	7897.0	79.3
0°-90°	9530.5	95.8
90°-120°	399.8	4.0
90°-150°	422.5	4.2
90°-180°	423.0	4.2
0°-180°	9953.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4421	4421	4421	4421	4421	
5°	4442	4414	4351	4367	4351	423
15°	4325	4243	4084	4029	3979	1222
25°	4065	3874	3582	3428	3361	1870
35°	3576	3241	2822	2556	2462	2229
45°	2788	2352	1927	1780	1745	2139
55°	1764	1440	1238	1254	1257	1585
65°	876	768	790	836	839	884
75°	323	393	509	543	535	357
85°	56	202	344	379	373	69
90°	2	148	287	323	321	4
95°	6	104	238	275	274	4
105°	4	41	149	190	194	4
115°	4	4	76	118	129	3
125°	2	2	2	52	64	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°	4421.1	4421.1	4421.1	4421.1	4421.1
2.5°	4453.9	4429.3	4379.0	4408.2	4394.2
5°	4442.2	4414.1	4350.9	4367.3	4350.9
7.5°	4423.4	4388.3	4304.1	4311.1	4272.4
10°	4398.9	4352.0	4243.2	4231.5	4196.4
12.5°	4367.3	4301.7	4174.1	4127.3	4093.4
15°	4325.1	4243.2	4084.0	4029.0	3978.6
17.5°	4277.1	4171.8	3986.8	3920.1	3860.4
20°	4217.4	4085.2	3865.1	3772.6	3707.1
22.5°	4144.9	3990.4	3744.5	3609.9	3557.3
25°	4065.3	3874.5	3581.8	3428.5	3360.6
27.5°	3961.1	3746.9	3421.5	3229.5	3132.3
30°	3851.1	3595.9	3235.4	3014.1	2911.1
32.5°	3718.8	3430.8	3020.0	2784.7	2693.4
35°	3576.0	3241.2	2822.2	2556.4	2461.6
37.5°	3407.4	3036.4	2586.9	2343.4	2260.3
40°	3222.5	2814.0	2352.8	2138.6	2073.0
42.5°	3011.8	2588.1	2132.7	1947.8	1891.6
45°	2788.2	2351.6	1926.7	1780.4	1745.3
47.5°	2544.7	2115.2	1733.6	1629.4	1603.6
50°	2282.5	1878.7	1546.3	1488.9	1490.1
52.5°	2033.2	1655.1	1387.1	1371.9	1368.4
55°	1764.0	1439.8	1238.4	1253.6	1257.2
57.5°	1520.5	1239.6	1112.0	1140.1	1143.6
60°	1288.8	1060.5	991.4	1034.8	1040.6
62.5°	1076.9	907.2	888.4	932.9	931.7
65°	875.6	767.9	790.1	835.8	839.3
67.5°	704.7	654.3	708.2	748.0	745.6
70°	559.5	552.5	628.6	670.7	668.4
72.5°	435.4	467.0	566.5	602.8	593.5
75°	323.1	393.3	509.2	543.1	534.9
77.5°	237.6	332.4	458.8	491.6	485.8
80°	162.7	282.1	415.5	449.5	442.5
82.5°	104.2	240.0	378.1	410.9	406.2
85°	56.2	202.5	344.1	379.3	373.4
87.5°	21.1	172.1	313.7	348.8	346.5
90°	2.3	147.5	286.8	323.1	320.7
92.5°	3.5	125.2	261.0	298.5	298.5
95°	5.9	104.2	237.6	275.1	273.9
97.5°	4.7	87.8	211.9	252.8	252.8
100°	4.7	72.6	188.5	229.4	231.8
102.5°	4.7	57.4	168.6	208.4	213.0
105°	3.5	41.0	148.7	189.6	194.3
107.5°	3.5	23.4	128.8	172.1	177.9
110°	3.5	5.9	111.2	153.3	160.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.5	3.5	93.6	135.8	142.8
115°	3.5	3.5	76.1	118.2	128.8
117.5°	2.3	2.3	56.2	103.0	112.4
120°	2.3	2.3	35.1	86.6	96.0
122.5°	2.3	2.3	15.2	69.1	81.9
125°	2.3	2.3	2.3	51.5	64.4
127.5°	2.3	2.3	1.2	30.4	45.7
130°	2.3	2.3	1.2	11.7	28.1
132.5°	2.3	2.3	1.2	1.2	8.2
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)