

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: P290336

Luminaire Tested: **8SSRK-SLC-10-L830-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290336  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-16)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SSRK-SLC-10-L830-CD1-U  
Description: 10000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH SQUARE CLEAR LENS AND 80 CRI 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

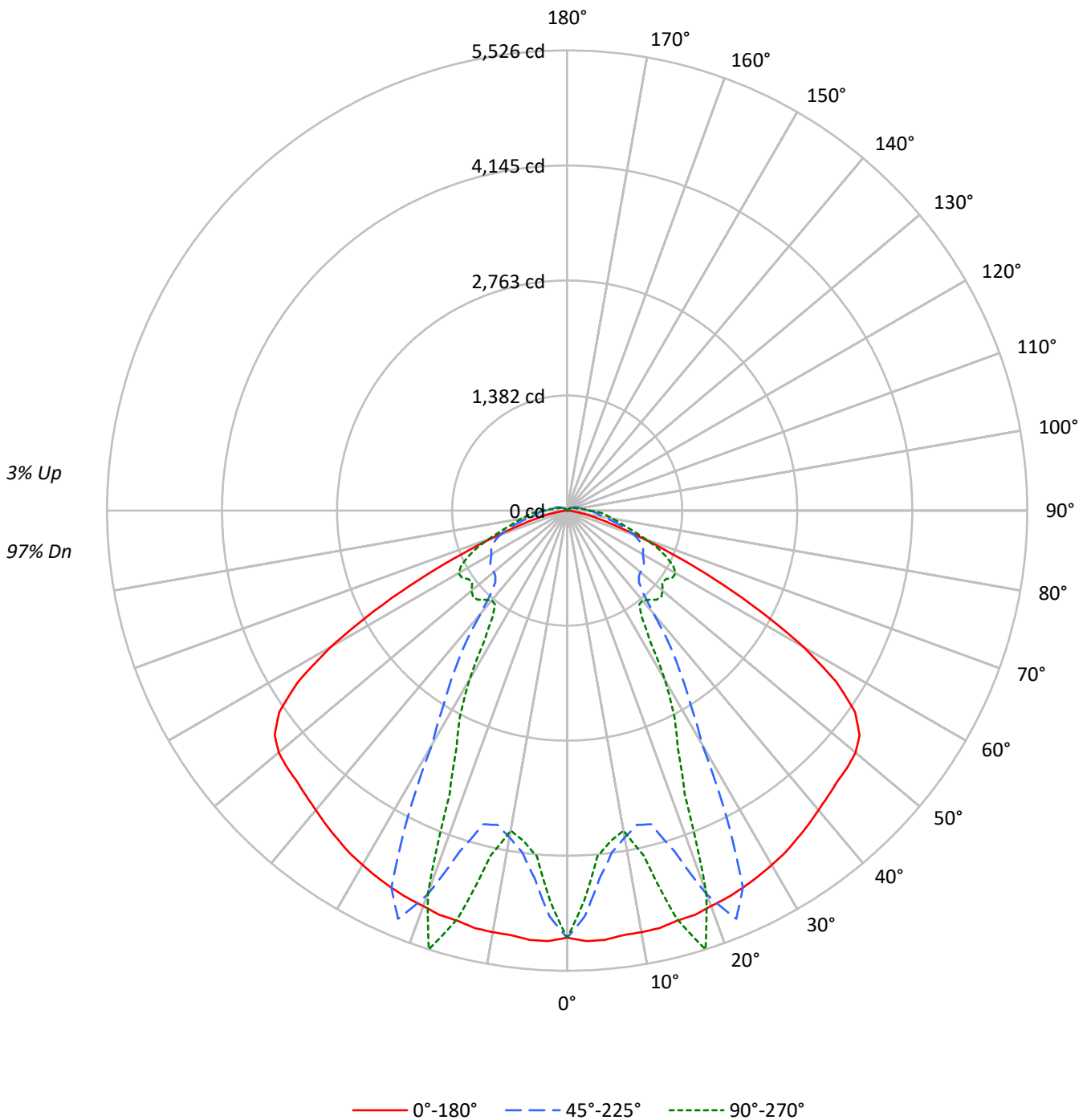
Lumens per Lamp: N/A  
Luminaire Lumens: 10783.7 lumens  
Efficiency: N/A  
Efficacy: 150.0 lumens/watt  
Spacing Criteria (0/90/45): 1.44 / 0.89 / 0.98  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 71.9151  
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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	97
1	108	103	99	95	105	101	97	93	96	93	90	91	89	87	87	85	83	81
2	99	91	84	79	96	89	83	78	85	80	75	81	77	73	77	74	71	69
3	91	81	73	67	88	79	72	66	75	69	64	72	67	63	69	65	61	59
4	84	72	64	57	81	71	63	57	68	61	56	65	59	54	62	57	53	51
5	77	65	56	50	75	64	56	50	61	54	49	59	53	48	57	51	47	45
6	72	59	50	44	70	58	50	44	56	49	43	54	47	43	52	46	42	40
7	67	54	45	40	65	53	45	39	51	44	39	49	43	38	48	42	38	36
8	62	49	41	36	61	49	41	35	47	40	35	46	39	35	44	38	34	32
9	58	46	38	32	57	45	37	32	44	37	32	42	36	32	41	35	31	29
10	55	42	35	30	54	42	34	30	40	34	29	39	33	29	38	33	29	27

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

	0°	45°	90°
0°	165607	165607	165607
5°	167416	115178	100093
10°	167938	87019	75010
15°	169453	73978	81781
20°	172361	82908	68356
25°	176293	76481	39045
30°	181054	45802	26448
35°	186953	31195	16189
40°	194506	20064	13613
45°	205500	14512	13839
50°	221578	13154	13052
55°	230666	12528	12071
60°	204361	11436	12264
65°	143063	10763	10492
70°	83141	9149	7891
75°	47266	6912	5613
80°	26842	4879	4340
85°	12987	3917	3553



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	426.0	4.0
10°-20°	1279.6	11.9
20°-30°	1883.5	17.5
30°-40°	1839.9	17.1
40°-50°	1525.3	14.1
50°-60°	1400.3	13.0
60°-70°	1109.7	10.3
70°-80°	616.2	5.7
80°-90°	326.3	3.0
90°-100°	171.6	1.6
100°-110°	103.3	1.0
110°-120°	59.0	0.5
120°-130°	32.6	0.3
130°-140°	10.3	0.1
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°	3589.0	33.3
0°-40°	5429.0	50.3
0°-60°	8354.6	77.5
0°-90°	10406.7	96.5
90°-120°	333.8	3.1
90°-150°	377.0	3.5
90°-180°	377.0	3.5
0°-180°	10783.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5128	5128	5128	5128	5128	
5°	5174	4884	4437	4248	4168	492
15°	5097	4071	3899	4774	5068	1446
25°	4996	3887	4992	3404	3140	2309
35°	4812	4640	2367	1691	1561	3019
45°	4594	2098	1221	1394	1515	3562
55°	4219	935	1126	1349	1439	3664
65°	1956	607	1000	1268	1315	1980
75°	408	370	643	686	717	484
85°	43	182	354	430	448	60
90°	1	132	259	283	281	2
95°	2	105	201	210	200	2
105°	2	70	141	122	110	3
115°	2	8	92	87	81	2
125°	2	2	42	67	66	2
135°	2	2	2	29	36	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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CATALOG NUMBER: 8SSRK-SLC-10-L830-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5128.5	5128.5	5128.5	5128.5	5128.5
2.5°	5174.2	5081.5	4875.5	4735.8	4688.8
5°	5174.2	4884.0	4437.1	4248.0	4168.5
7.5°	5142.9	4633.4	4137.2	4055.3	4003.5
10°	5140.5	4366.1	3984.3	3915.6	3901.1
12.5°	5134.5	4217.9	3866.2	4109.5	4240.8
15°	5097.1	4071.0	3898.7	4774.4	5068.2
17.5°	5091.1	3961.4	4293.8	5401.9	5525.9
20°	5053.8	3874.7	4909.3	5322.4	4885.2
22.5°	5029.7	3814.4	5305.5	4281.7	3686.8
25°	4996.0	3886.7	4992.4	3403.7	3139.9
27.5°	4957.4	4119.1	4138.4	2962.9	2788.3
30°	4914.1	4482.9	3244.7	2589.5	2347.4
32.5°	4870.7	4749.1	2761.8	2125.8	1841.6
35°	4811.7	4639.5	2366.7	1691.0	1560.9
37.5°	4756.3	4133.6	2006.6	1459.8	1422.4
40°	4694.9	3330.2	1611.5	1368.2	1406.8
42.5°	4643.1	2640.1	1353.8	1358.6	1453.7
45°	4593.7	2098.1	1221.3	1393.5	1515.2
47.5°	4564.8	1668.1	1168.3	1435.7	1533.2
50°	4520.2	1336.9	1149.0	1444.1	1498.3
52.5°	4426.3	1102.1	1143.0	1399.5	1436.9
55°	4219.1	934.6	1126.1	1349.0	1439.3
57.5°	3837.3	831.1	1087.6	1359.8	1498.3
60°	3278.5	750.4	1049.1	1394.7	1505.5
62.5°	2608.8	676.9	1028.6	1365.8	1434.5
65°	1956.0	607.0	999.7	1268.3	1315.2
67.5°	1369.4	546.8	934.6	1146.6	1171.9
70°	931.0	489.0	853.9	991.2	1002.1
72.5°	626.3	431.2	754.0	831.1	847.9
75°	408.3	369.8	643.2	686.5	716.6
77.5°	260.2	314.4	533.6	589.0	627.5
80°	161.4	260.2	449.3	528.7	552.8
82.5°	90.3	216.8	389.0	472.1	485.4
85°	43.4	181.9	354.1	430.0	448.0
87.5°	10.8	154.2	311.9	356.5	356.5
90°	1.2	132.5	259.0	283.0	280.6
92.5°	1.2	116.8	225.2	240.9	236.1
95°	2.4	104.8	201.1	209.6	199.9
97.5°	2.4	98.8	185.5	179.5	165.0
100°	2.4	91.5	168.6	153.0	137.3
102.5°	2.4	81.9	154.2	134.9	121.6
105°	2.4	69.9	140.9	121.6	109.6
107.5°	2.4	55.4	126.5	110.8	101.2
110°	2.4	39.7	113.2	102.4	95.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2.4	24.1	102.4	95.1	89.1
115°	2.4	8.4	91.5	86.7	80.7
117.5°	2.4	3.6	80.7	83.1	75.9
120°	2.4	3.6	67.4	78.3	72.3
122.5°	2.4	3.6	55.4	73.5	69.9
125°	2.4	2.4	42.2	67.4	66.2
127.5°	2.4	2.4	28.9	59.0	61.4
130°	2.4	2.4	14.5	48.2	54.2
132.5°	2.4	2.4	2.4	39.7	44.6
135°	2.4	2.4	2.4	28.9	36.1
137.5°	2.4	2.4	2.4	14.5	26.5
140°	2.4	2.4	2.4	2.4	10.8
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)