

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: P290344

Luminaire Tested: **8SSRK-SLC-12-L830-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290344  
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-12-L830-CD1-U  
Description: 12000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH SQUARE CLEAR LENS AND 80 CRI 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

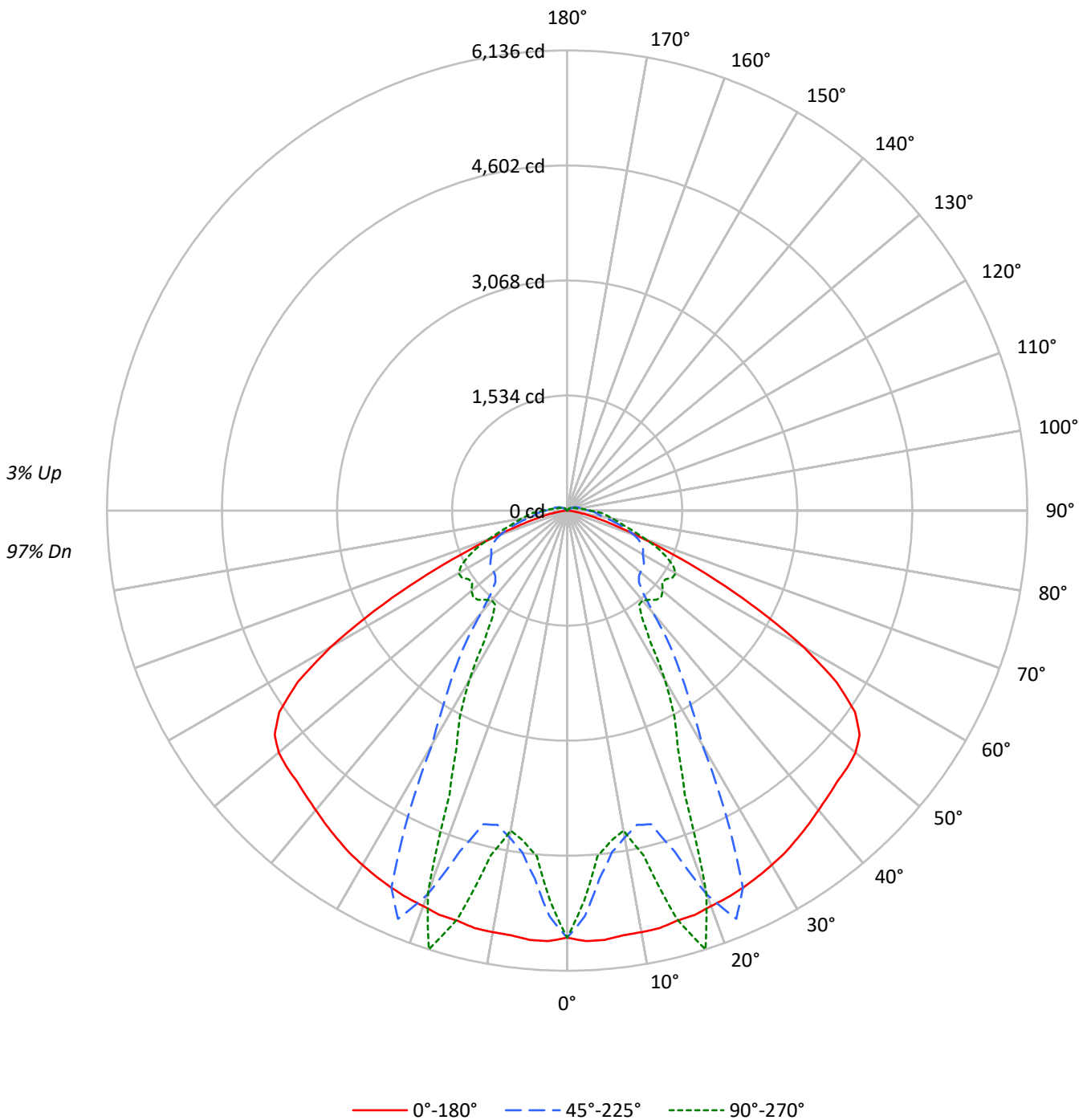
Lumens per Lamp: N/A  
Luminaire Lumens: 11974.8 lumens  
Efficiency: N/A  
Efficacy: 148.0 lumens/watt  
Spacing Criteria (0/90/45): 1.44 / 0.89 / 0.98  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')  
CIE Type: Direct

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

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

	0°	45°	90°
0°	183897	183897	183897
5°	185907	127900	111151
10°	186488	96629	83296
15°	188170	82151	90814
20°	191399	92065	75905
25°	195765	84928	43359
30°	201049	50861	29370
35°	207604	34640	17977
40°	215988	22280	15116
45°	228198	16115	15367
50°	246054	14606	14493
55°	256143	13912	13405
60°	226932	12699	13619
65°	158861	11951	11651
70°	92330	10161	8763
75°	52487	7675	6233
80°	29803	5418	4820
85°	14394	4349	3945



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	473.1	4.0
10°-20°	1420.9	11.9
20°-30°	2091.5	17.5
30°-40°	2043.1	17.1
40°-50°	1693.8	14.1
50°-60°	1555.0	13.0
60°-70°	1232.2	10.3
70°-80°	684.2	5.7
80°-90°	362.4	3.0
90°-100°	190.6	1.6
100°-110°	114.7	1.0
110°-120°	65.5	0.5
120°-130°	36.2	0.3
130°-140°	11.4	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°	3985.5	33.3
0°-40°	6028.6	50.3
0°-60°	9277.4	77.5
0°-90°	11556.2	96.5
90°-120°	370.7	3.1
90°-150°	418.6	3.5
90°-180°	419.0	3.5
0°-180°	11974.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5695	5695	5695	5695	5695	
5°	5746	5423	4927	4717	4629	546
15°	5660	4521	4329	5302	5628	1606
25°	5548	4316	5544	3780	3487	2564
35°	5343	5152	2628	1878	1733	3353
45°	5101	2330	1356	1547	1682	3956
55°	4685	1038	1250	1498	1598	4069
65°	2172	674	1110	1408	1460	2198
75°	453	411	714	762	796	537
85°	48	202	393	478	498	66
90°	1	147	288	314	312	2
95°	3	116	223	233	222	2
105°	3	78	156	135	122	3
115°	3	9	102	96	90	3
125°	3	3	47	75	74	2
135°	3	3	3	32	40	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°	5694.9	5694.9	5694.9	5694.9	5694.9
2.5°	5745.7	5642.7	5414.0	5258.9	5206.7
5°	5745.7	5423.4	4927.2	4717.2	4629.0
7.5°	5711.0	5145.2	4594.2	4503.2	4445.7
10°	5708.3	4848.3	4424.3	4348.1	4332.0
12.5°	5701.6	4683.8	4293.2	4563.4	4709.2
15°	5660.1	4520.6	4329.4	5301.7	5628.0
17.5°	5653.4	4398.9	4768.0	5998.5	6136.3
20°	5612.0	4302.6	5451.5	5910.2	5424.7
22.5°	5585.2	4235.7	5891.5	4754.7	4094.0
25°	5547.8	4316.0	5543.8	3779.7	3486.8
27.5°	5505.0	4574.1	4595.5	3290.2	3096.2
30°	5456.8	4978.0	3603.1	2875.5	2606.7
32.5°	5408.7	5273.6	3066.8	2360.6	2045.0
35°	5343.2	5151.9	2628.1	1877.8	1733.3
37.5°	5281.6	4590.2	2228.2	1621.0	1579.5
40°	5213.4	3698.1	1789.5	1519.4	1562.2
42.5°	5155.9	2931.7	1503.3	1508.7	1614.3
45°	5101.1	2329.9	1356.2	1547.4	1682.5
47.5°	5069.0	1852.4	1297.3	1594.3	1702.6
50°	5019.5	1484.6	1275.9	1603.6	1663.8
52.5°	4915.2	1223.8	1269.2	1554.1	1595.6
55°	4685.1	1037.9	1250.5	1498.0	1598.3
57.5°	4261.1	922.8	1207.7	1510.0	1663.8
60°	3640.6	833.2	1164.9	1548.8	1671.8
62.5°	2896.9	751.7	1142.2	1516.7	1592.9
65°	2172.0	674.1	1110.1	1408.3	1460.5
67.5°	1520.7	607.2	1037.9	1273.3	1301.3
70°	1033.9	543.0	948.3	1100.7	1112.8
72.5°	695.5	478.8	837.3	922.8	941.6
75°	453.4	410.6	714.2	762.4	795.8
77.5°	288.9	349.1	592.5	654.0	696.8
80°	179.2	288.9	498.9	587.1	613.9
82.5°	100.3	240.7	432.0	524.3	539.0
85°	48.1	202.0	393.2	477.5	497.5
87.5°	12.0	171.2	346.4	395.9	395.9
90°	1.3	147.1	287.6	314.3	311.6
92.5°	1.3	129.7	250.1	267.5	262.1
95°	2.7	116.4	223.4	232.7	222.0
97.5°	2.7	109.7	206.0	199.3	183.2
100°	2.7	101.6	187.2	169.9	152.5
102.5°	2.7	90.9	171.2	149.8	135.1
105°	2.7	77.6	156.5	135.1	121.7
107.5°	2.7	61.5	140.4	123.0	112.3
110°	2.7	44.1	125.7	113.7	105.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2.7	26.7	113.7	105.7	99.0
115°	2.7	9.4	101.6	96.3	89.6
117.5°	2.7	4.0	89.6	92.3	84.3
120°	2.7	4.0	74.9	86.9	80.2
122.5°	2.7	4.0	61.5	81.6	77.6
125°	2.7	2.7	46.8	74.9	73.6
127.5°	2.7	2.7	32.1	65.5	68.2
130°	2.7	2.7	16.0	53.5	60.2
132.5°	2.7	2.7	2.7	44.1	49.5
135°	2.7	2.7	2.7	32.1	40.1
137.5°	2.7	2.7	2.7	16.0	29.4
140°	2.7	2.7	2.7	2.7	12.0
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)