

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: P290346

Luminaire Tested: **8SSRK-SLC-12-L840-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290346  
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-L840-CD1-U  
Description: 12000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH SQUARE CLEAR LENS AND 80 CRI 4000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

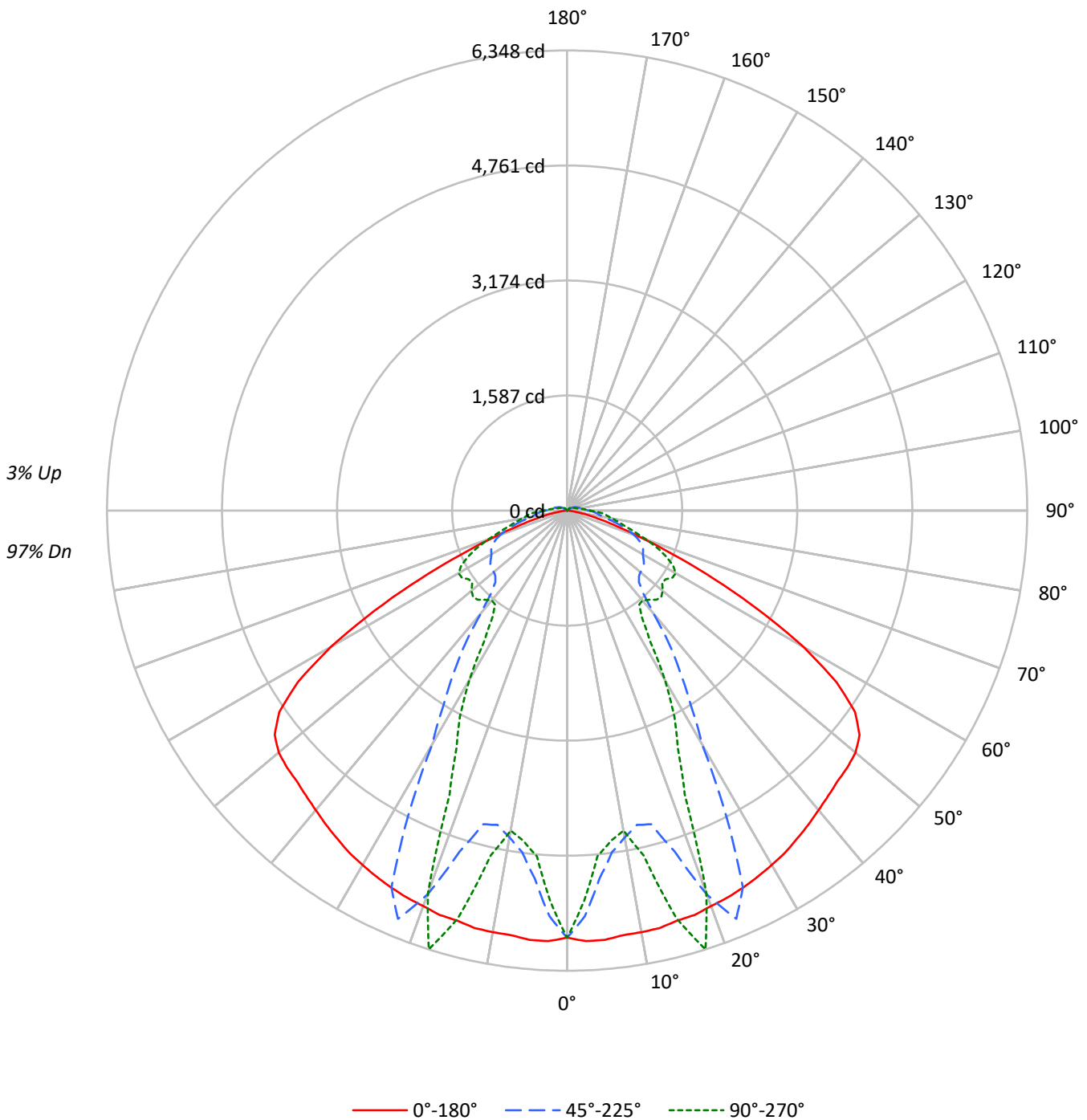
Lumens per Lamp: N/A  
Luminaire Lumens: 12388.0 lumens  
Efficiency: N/A  
Efficacy: 153.1 lumens/watt  
Spacing Criteria (0/90/45): 1.44 / 0.89 / 0.98  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')  
CIE Type: Direct

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			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°	190242	190242	190242
5°	192323	132313	114985
10°	192921	99964	86170
15°	194663	84984	93948
20°	198002	95241	78525
25°	202519	87857	44855
30°	207987	52616	30383
35°	214765	35836	18597
40°	223441	23050	15637
45°	236071	16671	15898
50°	254544	15111	14993
55°	264983	14393	13867
60°	234761	13137	14089
65°	164347	12364	12053
70°	95509	10511	9065
75°	54293	7939	6448
80°	30834	5605	4986
85°	14902	4499	4082



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	489.4	4.0
10°-20°	1469.9	11.9
20°-30°	2163.6	17.5
30°-40°	2113.6	17.1
40°-50°	1752.2	14.1
50°-60°	1608.7	13.0
60°-70°	1274.7	10.3
70°-80°	707.8	5.7
80°-90°	374.9	3.0
90°-100°	197.1	1.6
100°-110°	118.6	1.0
110°-120°	67.8	0.5
120°-130°	37.4	0.3
130°-140°	11.8	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°	4123.0	33.3
0°-40°	6236.6	50.3
0°-60°	9597.5	77.5
0°-90°	11954.9	96.5
90°-120°	383.5	3.1
90°-150°	433.1	3.5
90°-180°	433.0	3.5
0°-180°	12388.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5891	5891	5891	5891	5891	
5°	5944	5610	5097	4880	4789	565
15°	5855	4677	4479	5485	5822	1661
25°	5739	4465	5735	3910	3607	2652
35°	5528	5330	2719	1943	1793	3469
45°	5277	2410	1403	1601	1741	4092
55°	4847	1074	1294	1550	1653	4209
65°	2247	697	1148	1457	1511	2274
75°	469	425	739	789	823	556
85°	50	209	407	494	515	69
90°	1	152	298	325	322	2
95°	3	120	231	241	230	2
105°	3	80	162	140	126	3
115°	3	10	105	100	93	3
125°	3	3	48	78	76	3
135°	3	3	3	33	42	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°	5891.4	5891.4	5891.4	5891.4	5891.4
2.5°	5944.0	5837.4	5600.8	5440.3	5386.4
5°	5944.0	5610.5	5097.2	4880.0	4788.7
7.5°	5908.0	5322.7	4752.7	4658.6	4599.1
10°	5905.2	5015.6	4577.0	4498.1	4481.5
12.5°	5898.3	4845.4	4441.4	4720.9	4871.7
15°	5855.4	4676.6	4478.7	5484.6	5822.2
17.5°	5848.5	4550.7	4932.5	6205.5	6348.0
20°	5805.6	4451.1	5639.6	6114.1	5611.9
22.5°	5777.9	4381.9	6094.8	4918.7	4235.2
25°	5739.2	4464.9	5735.0	3910.1	3607.1
27.5°	5694.9	4731.9	4754.1	3403.7	3203.0
30°	5645.1	5149.8	3727.4	2974.7	2696.6
32.5°	5595.3	5455.5	3172.6	2442.1	2115.5
35°	5527.5	5329.6	2718.8	1942.6	1793.1
37.5°	5463.8	4748.5	2305.1	1676.9	1634.0
40°	5393.3	3825.7	1851.3	1571.8	1616.0
42.5°	5333.8	3032.9	1555.2	1560.7	1670.0
45°	5277.1	2410.2	1403.0	1600.8	1740.6
47.5°	5243.9	1916.3	1342.1	1649.3	1761.3
50°	5192.7	1535.8	1320.0	1658.9	1721.2
52.5°	5084.7	1266.0	1313.0	1607.7	1650.6
55°	4846.8	1073.7	1293.7	1549.6	1653.4
57.5°	4408.2	954.7	1249.4	1562.1	1721.2
60°	3766.2	862.0	1205.1	1602.2	1729.5
62.5°	2996.9	777.6	1181.6	1569.0	1647.9
65°	2247.0	697.3	1148.4	1456.9	1510.9
67.5°	1573.2	628.2	1073.7	1317.2	1346.2
70°	1069.5	561.7	981.0	1138.7	1151.2
72.5°	719.5	495.3	866.1	954.7	974.1
75°	469.0	424.8	738.8	788.7	823.2
77.5°	298.9	361.1	612.9	676.6	720.9
80°	185.4	298.9	516.1	607.4	635.1
82.5°	103.8	249.0	446.9	542.4	557.6
85°	49.8	208.9	406.8	493.9	514.7
87.5°	12.5	177.1	358.4	409.5	409.5
90°	1.4	152.2	297.5	325.1	322.4
92.5°	1.4	134.2	258.7	276.7	271.2
95°	2.8	120.4	231.1	240.7	229.7
97.5°	2.8	113.5	213.1	206.2	189.6
100°	2.8	105.2	193.7	175.7	157.7
102.5°	2.8	94.1	177.1	155.0	139.7
105°	2.8	80.2	161.9	139.7	125.9
107.5°	2.8	63.6	145.3	127.3	116.2
110°	2.8	45.7	130.1	117.6	109.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2.8	27.7	117.6	109.3	102.4
115°	2.8	9.7	105.2	99.6	92.7
117.5°	2.8	4.2	92.7	95.5	87.2
120°	2.8	4.2	77.5	89.9	83.0
122.5°	2.8	4.2	63.6	84.4	80.2
125°	2.8	2.8	48.4	77.5	76.1
127.5°	2.8	2.8	33.2	67.8	70.6
130°	2.8	2.8	16.6	55.3	62.3
132.5°	2.8	2.8	2.8	45.7	51.2
135°	2.8	2.8	2.8	33.2	41.5
137.5°	2.8	2.8	2.8	16.6	30.4
140°	2.8	2.8	2.8	2.8	12.5
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)