

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: P290345

Luminaire Tested: **8SSRK-SLC-12-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290345
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-L835-CD1-U
Description: 12000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH SQUARE CLEAR LENS AND 80 CRI 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

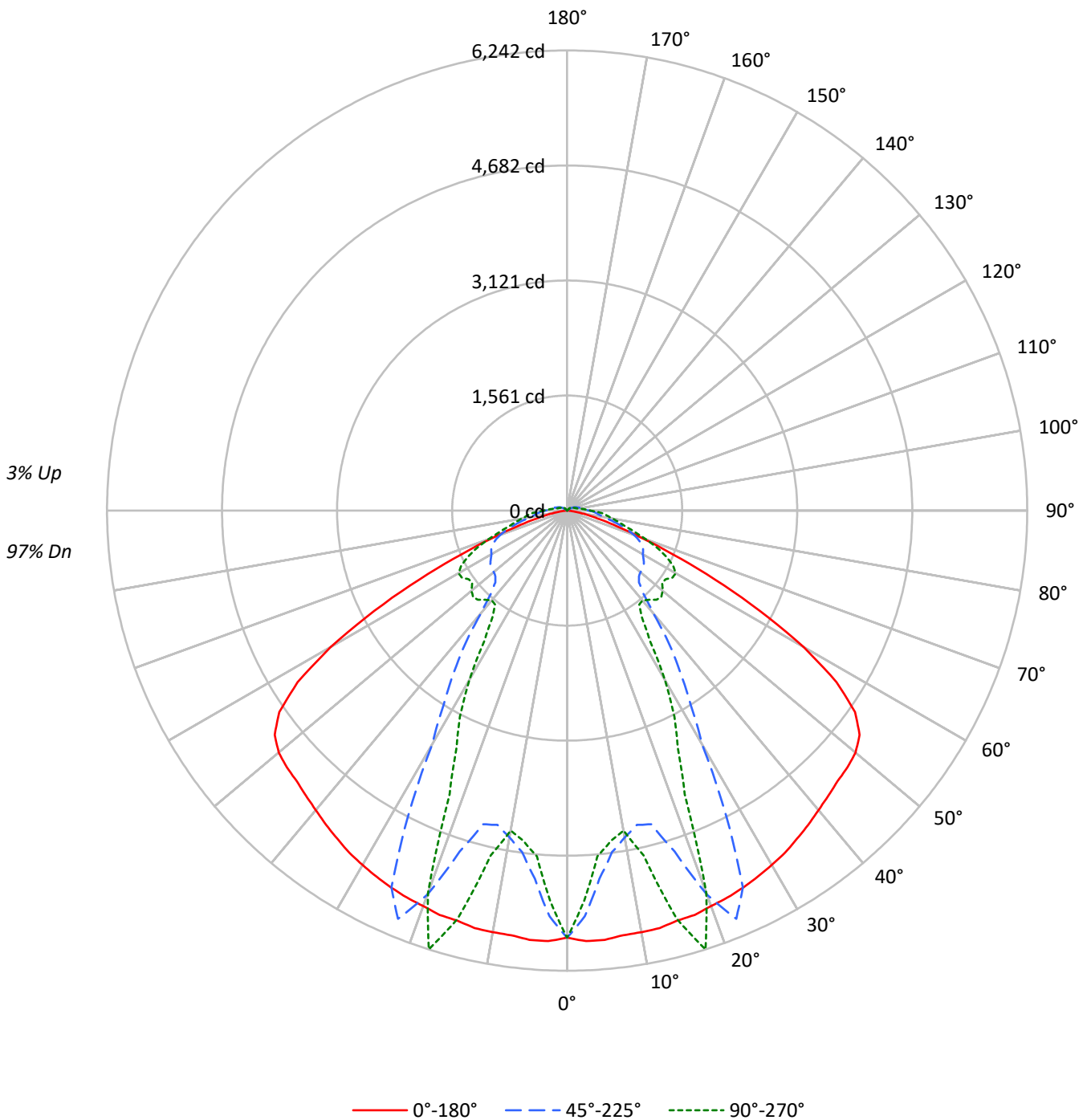
Lumens per Lamp: N/A
Luminaire Lumens: 12181.4 lumens
Efficiency: N/A
Efficacy: 150.6 lumens/watt
Spacing Criteria (0/90/45): 1.44 / 0.89 / 0.98
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')
CIE Type: Direct

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°	187068	187068	187068
5°	189114	130107	113067
10°	189703	98295	84734
15°	191418	83566	92381
20°	194700	93652	77215
25°	199142	86393	44107
30°	204520	51739	29877
35°	211182	35237	18287
40°	219716	22665	15377
45°	232135	16393	15632
50°	250299	14858	14743
55°	260560	14152	13636
60°	230847	12918	13854
65°	161604	12157	11852
70°	93919	10336	8914
75°	53390	7807	6341
80°	30318	5511	4903
85°	14663	4424	4014



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	481.2	4.0
10°-20°	1445.4	11.9
20°-30°	2127.6	17.5
30°-40°	2078.4	17.1
40°-50°	1723.0	14.1
50°-60°	1581.8	13.0
60°-70°	1253.5	10.3
70°-80°	696.0	5.7
80°-90°	368.6	3.0
90°-100°	193.8	1.6
100°-110°	116.7	1.0
110°-120°	66.6	0.5
120°-130°	36.8	0.3
130°-140°	11.6	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°	4054.2	33.3
0°-40°	6132.6	50.3
0°-60°	9437.4	77.5
0°-90°	11755.5	96.5
90°-120°	377.1	3.1
90°-150°	425.8	3.5
90°-180°	426.0	3.5
0°-180°	12181.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5793	5793	5793	5793	5793	
5°	5845	5517	5012	4799	4709	556
15°	5758	4599	4404	5393	5725	1633
25°	5644	4390	5639	3845	3547	2608
35°	5435	5241	2673	1910	1763	3411
45°	5189	2370	1380	1574	1712	4024
55°	4766	1056	1272	1524	1626	4139
65°	2210	686	1129	1433	1486	2236
75°	461	418	726	776	810	547
85°	49	205	400	486	506	67
90°	1	150	292	320	317	2
95°	3	118	227	237	226	2
105°	3	79	159	137	124	3
115°	3	10	103	98	91	3
125°	3	3	48	76	75	2
135°	3	3	3	33	41	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°	5793.1	5793.1	5793.1	5793.1	5793.1
2.5°	5844.8	5740.1	5507.4	5349.6	5296.6
5°	5844.8	5517.0	5012.2	4798.6	4708.8
7.5°	5809.5	5234.0	4673.4	4580.9	4522.4
10°	5806.7	4931.9	4500.6	4423.1	4406.8
12.5°	5799.9	4764.6	4367.3	4642.1	4790.4
15°	5757.8	4598.6	4404.0	5393.1	5725.1
17.5°	5751.0	4474.8	4850.3	6102.0	6242.1
20°	5708.8	4376.8	5545.5	6012.2	5518.3
22.5°	5681.6	4308.8	5993.1	4836.7	4164.6
25°	5643.5	4390.4	5639.4	3844.9	3546.9
27.5°	5599.9	4653.0	4674.8	3346.9	3149.6
30°	5551.0	5063.9	3665.3	2925.1	2651.7
32.5°	5502.0	5364.6	3119.7	2401.3	2080.3
35°	5435.3	5240.8	2673.4	1910.2	1763.2
37.5°	5372.7	4669.3	2266.6	1649.0	1606.8
40°	5303.4	3761.9	1820.4	1545.6	1589.1
42.5°	5244.9	2982.3	1529.2	1534.7	1642.2
45°	5189.1	2370.0	1379.6	1574.1	1711.5
47.5°	5156.4	1884.3	1319.7	1621.8	1732.0
50°	5106.1	1510.2	1297.9	1631.3	1692.5
52.5°	5000.0	1244.9	1291.1	1580.9	1623.1
55°	4765.9	1055.8	1272.1	1523.8	1625.8
57.5°	4334.7	938.8	1228.6	1536.0	1692.5
60°	3703.4	847.6	1185.0	1575.5	1700.7
62.5°	2946.9	764.6	1161.9	1542.8	1620.4
65°	2209.5	685.7	1129.2	1432.6	1485.7
67.5°	1546.9	617.7	1055.8	1295.2	1323.8
70°	1051.7	552.4	964.6	1119.7	1132.0
72.5°	707.5	487.1	851.7	938.8	957.8
75°	461.2	417.7	726.5	775.5	809.5
77.5°	293.9	355.1	602.7	665.3	708.8
80°	182.3	293.9	507.5	597.3	624.5
82.5°	102.0	244.9	439.5	533.3	548.3
85°	49.0	205.4	400.0	485.7	506.1
87.5°	12.2	174.1	352.4	402.7	402.7
90°	1.4	149.7	292.5	319.7	317.0
92.5°	1.4	132.0	254.4	272.1	266.7
95°	2.7	118.4	227.2	236.7	225.8
97.5°	2.7	111.6	209.5	202.7	186.4
100°	2.7	103.4	190.5	172.8	155.1
102.5°	2.7	92.5	174.1	152.4	137.4
105°	2.7	78.9	159.2	137.4	123.8
107.5°	2.7	62.6	142.9	125.2	114.3
110°	2.7	44.9	127.9	115.6	107.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.7	27.2	115.6	107.5	100.7
115°	2.7	9.5	103.4	98.0	91.2
117.5°	2.7	4.1	91.2	93.9	85.7
120°	2.7	4.1	76.2	88.4	81.6
122.5°	2.7	4.1	62.6	83.0	78.9
125°	2.7	2.7	47.6	76.2	74.8
127.5°	2.7	2.7	32.7	66.7	69.4
130°	2.7	2.7	16.3	54.4	61.2
132.5°	2.7	2.7	2.7	44.9	50.3
135°	2.7	2.7	2.7	32.7	40.8
137.5°	2.7	2.7	2.7	16.3	29.9
140°	2.7	2.7	2.7	2.7	12.2
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)