

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: P290401

Luminaire Tested: **8SSRK-SLN-50-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290401
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-15)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SSRK-SLN-50-L835-CD1-U
Description: 5000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH SQUARE NARROW LENS AND 80 CRI 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5258.3 lumens
Efficiency: N/A
Efficacy: 153.8 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 0.98 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')
CIE Type: Direct

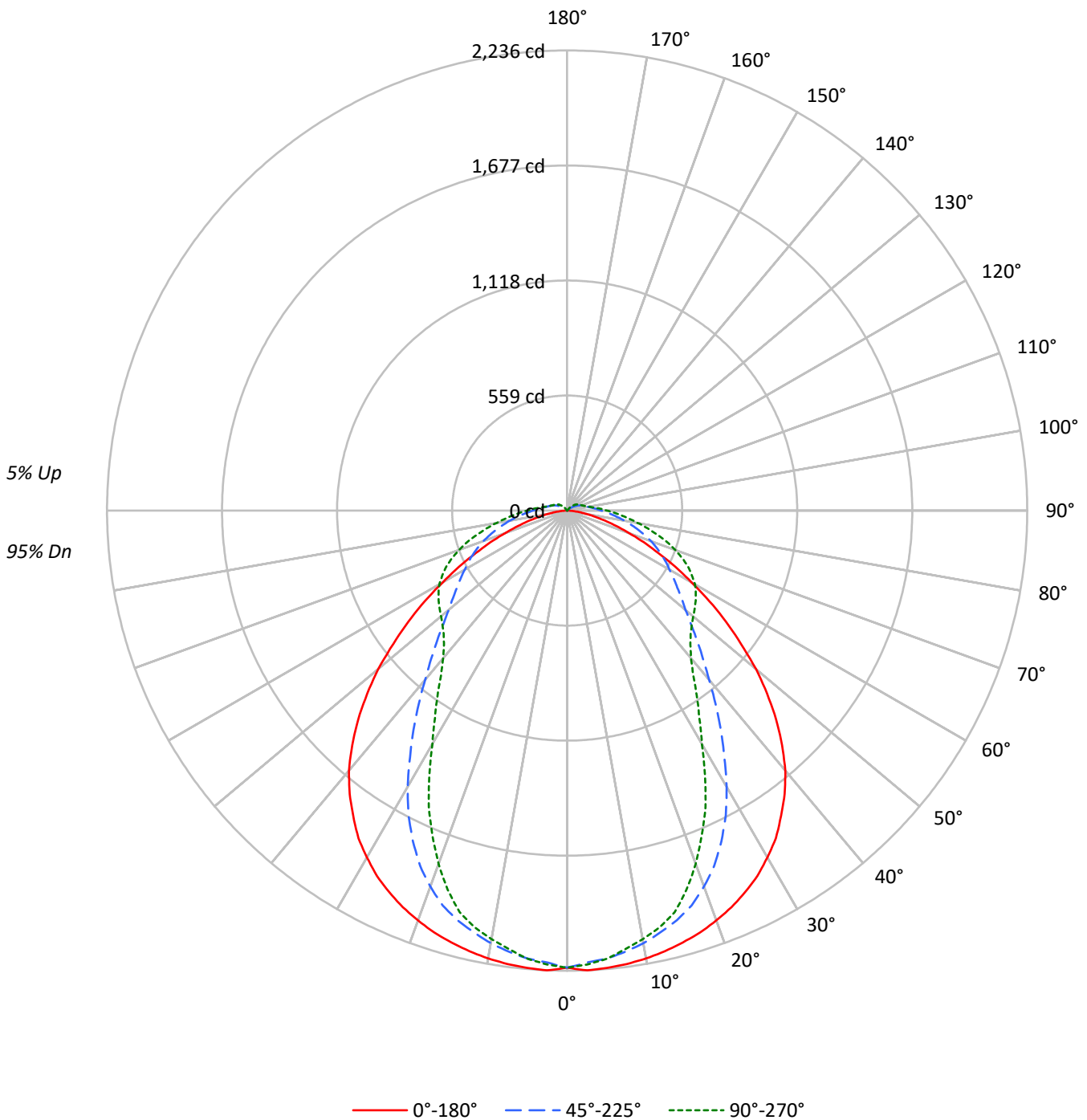
Input Watts (W): 34.1991
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	108	108	103	103	103	98	98	98	95				
1	107	102	98	94	104	100	96	92	94	91	88	90	87	85	85	83	81	79				
2	98	90	83	77	95	87	81	76	83	78	73	79	75	71	75	72	69	66				
3	90	79	71	65	87	77	70	64	74	67	62	70	65	60	67	63	59	56				
4	82	71	62	56	80	69	61	55	66	59	54	63	57	52	60	55	51	49				
5	76	64	55	48	74	62	54	48	60	52	47	57	51	46	55	49	45	43				
6	71	58	49	43	68	56	48	42	54	47	42	52	46	41	50	45	40	38				
7	66	53	44	38	64	52	44	38	50	42	37	48	41	37	46	40	36	34				
8	61	48	40	34	60	47	40	34	46	39	34	44	38	33	43	37	33	31				
9	57	44	37	31	56	44	36	31	42	35	31	41	35	30	40	34	30	28				
10	54	41	34	28	53	41	33	28	39	33	28	38	32	28	37	31	27	26				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	71719	71719	71719
5°	72176	56723	52514
10°	72184	46623	40662
15°	72221	39100	32593
20°	72286	32830	25560
25°	72197	27157	19784
30°	71691	21884	14764
35°	70411	17168	11385
40°	68329	13349	9058
45°	64271	10604	7752
50°	58725	8596	6970
55°	51512	7273	6399
60°	43546	6265	5845
65°	35766	5441	5181
70°	28648	4634	4396
75°	22007	3825	3550
80°	15866	3068	2742
85°	9995	2399	2086



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.6	4.0
10°-20°	584.6	11.1
20°-30°	822.1	15.6
30°-40°	860.9	16.4
40°-50°	779.4	14.8
50°-60°	663.4	12.6
60°-70°	524.5	10.0
70°-80°	357.1	6.8
80°-90°	203.8	3.9
90°-100°	113.0	2.1
100°-110°	69.0	1.3
110°-120°	42.0	0.8
120°-130°	22.7	0.4
130°-140°	6.9	0.1
140°-150°	0.2	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1615.3	30.7
0°-40°	2476.2	47.1
0°-60°	3919.0	74.5
0°-90°	5004.4	95.2
90°-120°	224.1	4.3
90°-150°	253.8	4.8
90°-180°	254.0	4.8
0°-180°	5258.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2221	2221	2221	2221	2221	
5°	2231	2217	2185	2195	2187	212
15°	2172	2131	2061	2039	2020	614
25°	2046	1945	1773	1635	1591	943
35°	1812	1608	1302	1140	1098	1132
45°	1437	1141	892	846	849	1103
55°	942	719	654	729	763	843
65°	489	425	505	617	649	493
75°	190	232	356	437	453	207
85°	33	110	217	259	263	40
90°	1	76	166	193	193	2
95°	1	59	131	145	143	1
105°	1	36	88	91	88	1
115°	1	5	59	69	67	1
125°	1	1	27	47	50	1
135°	1	1	1	19	26	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°	2221.0	2221.0	2221.0	2221.0	2221.0
2.5°	2236.2	2224.0	2198.5	2214.9	2207.6
5°	2230.7	2216.7	2185.2	2194.9	2187.0
7.5°	2222.2	2203.4	2162.7	2165.7	2150.5
10°	2209.5	2185.2	2134.7	2129.3	2114.7
12.5°	2193.1	2159.6	2098.9	2091.6	2074.6
15°	2172.4	2131.1	2060.6	2039.4	2019.9
17.5°	2149.3	2097.1	2011.4	1964.0	1930.6
20°	2119.5	2053.3	1944.0	1875.3	1826.7
22.5°	2086.1	2005.9	1868.0	1764.8	1709.5
25°	2046.0	1944.6	1772.7	1635.4	1591.0
27.5°	2001.7	1880.8	1668.8	1508.4	1449.5
30°	1945.8	1800.0	1550.3	1378.4	1310.4
32.5°	1887.5	1713.1	1421.5	1248.4	1195.5
35°	1812.2	1608.0	1302.5	1139.7	1097.7
37.5°	1736.2	1495.6	1184.0	1042.5	1005.4
40°	1649.3	1382.0	1072.2	962.3	936.1
42.5°	1546.1	1266.6	977.5	894.8	885.7
45°	1436.7	1140.9	892.4	845.6	848.7
47.5°	1317.7	1026.7	815.3	806.1	821.3
50°	1198.0	920.4	750.9	776.4	800.1
52.5°	1064.9	817.7	699.8	752.1	780.6
55°	942.2	719.3	653.7	729.0	763.0
57.5°	820.1	635.4	613.6	705.3	741.1
60°	698.6	558.9	574.7	679.8	717.5
62.5°	592.9	486.0	540.7	651.2	684.0
65°	489.0	424.6	505.4	617.2	649.4
67.5°	402.8	370.0	470.2	576.5	605.7
70°	320.8	318.3	432.5	531.6	558.3
72.5°	250.3	271.5	393.0	484.8	510.3
75°	190.1	231.5	356.0	437.4	453.2
77.5°	139.1	193.8	318.3	389.4	400.3
80°	95.4	161.0	282.5	341.4	349.3
82.5°	60.1	133.0	247.9	298.3	303.7
85°	33.4	110.0	216.9	259.4	263.0
87.5°	12.8	90.5	188.9	225.4	228.4
90°	0.6	76.5	165.8	193.2	193.2
92.5°	0.6	66.8	147.0	167.7	168.9
95°	1.2	58.9	130.6	144.6	143.4
97.5°	1.2	53.5	115.4	127.0	123.3
100°	1.2	48.6	103.9	111.8	108.1
102.5°	1.2	43.1	94.8	99.6	95.4
105°	1.2	35.8	87.5	91.1	87.5
107.5°	1.2	28.6	79.6	84.4	80.8
110°	1.2	21.3	72.3	78.4	75.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.6	13.4	65.6	72.9	71.1
115°	1.2	4.9	58.9	68.6	66.8
117.5°	0.6	2.4	50.4	63.8	63.2
120°	0.6	1.8	42.5	59.5	59.5
122.5°	0.6	1.8	35.2	53.5	55.9
125°	0.6	1.2	26.7	47.4	50.4
127.5°	0.6	1.2	18.8	41.3	45.0
130°	0.6	1.2	9.7	34.0	38.9
132.5°	0.6	1.2	1.2	26.7	32.2
135°	1.2	1.2	1.2	19.4	25.5
137.5°	1.2	1.2	1.2	10.3	18.2
140°	1.2	1.2	0.6	0.6	8.5
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)