

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: P290331

Luminaire Tested: **8SSRK-SLC-80-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290331
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-80-L850-CD1-U
Description: 8000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH SQUARE CLEAR LENS AND 80 CRI 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

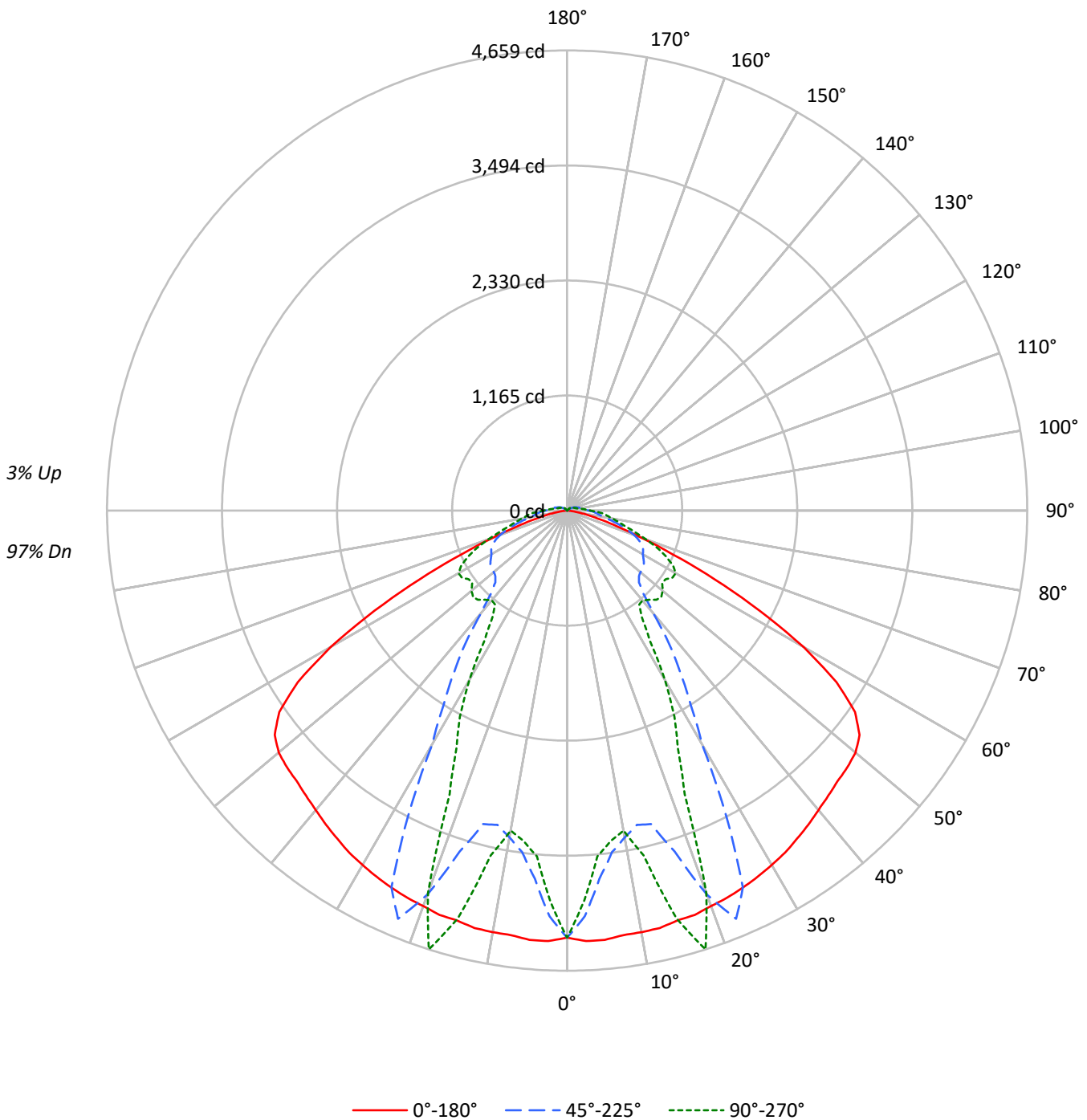
Lumens per Lamp: N/A
Luminaire Lumens: 9091.4 lumens
Efficiency: N/A
Efficacy: 160.5 lumens/watt
Spacing Criteria (0/90/45): 1.44 / 0.89 / 0.98
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 56.6491
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°	139619	139619	139619
5°	141146	97104	84387
10°	141584	73362	63241
15°	142864	62369	68948
20°	145312	69897	57630
25°	148628	64478	32919
30°	152640	38615	22299
35°	157614	26299	13649
40°	163981	16915	11476
45°	173250	12234	11667
50°	186809	11089	11004
55°	194468	10562	10177
60°	172290	9641	10340
65°	120616	9074	8845
70°	70093	7714	6652
75°	39846	5826	4733
80°	22635	4114	3660
85°	10952	3302	2995



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.2	4.0
10°-20°	1078.8	11.9
20°-30°	1587.9	17.5
30°-40°	1551.2	17.1
40°-50°	1285.9	14.1
50°-60°	1180.6	13.0
60°-70°	935.5	10.3
70°-80°	519.4	5.7
80°-90°	275.1	3.0
90°-100°	144.7	1.6
100°-110°	87.1	1.0
110°-120°	49.7	0.5
120°-130°	27.4	0.3
130°-140°	8.7	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°	3025.8	33.3
0°-40°	4577.0	50.3
0°-60°	7043.6	77.5
0°-90°	8773.6	96.5
90°-120°	281.4	3.1
90°-150°	317.8	3.5
90°-180°	318.0	3.5
0°-180°	9091.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4324	4324	4324	4324	4324	
5°	4362	4118	3741	3581	3514	415
15°	4297	3432	3287	4025	4273	1219
25°	4212	3277	4209	2870	2647	1946
35°	4057	3911	1995	1426	1316	2546
45°	3873	1769	1030	1175	1277	3003
55°	3557	788	949	1137	1213	3089
65°	1649	512	843	1069	1109	1669
75°	344	312	542	579	604	408
85°	37	153	298	362	378	50
90°	1	112	218	239	237	2
95°	2	88	170	177	169	1
105°	2	59	119	103	92	2
115°	2	7	77	73	68	2
125°	2	2	36	57	56	2
135°	2	2	2	24	30	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°	4323.7	4323.7	4323.7	4323.7	4323.7
2.5°	4362.3	4284.1	4110.4	3992.7	3953.1
5°	4362.3	4117.5	3740.8	3581.4	3514.4
7.5°	4335.9	3906.3	3488.0	3418.9	3375.3
10°	4333.8	3680.9	3359.0	3301.1	3289.0
12.5°	4328.8	3556.0	3259.5	3464.6	3575.3
15°	4297.3	3432.1	3286.9	4025.1	4272.9
17.5°	4292.2	3339.7	3620.0	4554.2	4658.8
20°	4260.7	3266.6	4138.9	4487.2	4118.6
22.5°	4240.4	3215.9	4472.9	3609.8	3108.2
25°	4212.0	3276.8	4208.9	2869.6	2647.2
27.5°	4179.5	3472.8	3489.0	2497.9	2350.7
30°	4142.9	3779.4	2735.6	2183.2	1979.1
32.5°	4106.4	4003.8	2328.4	1792.2	1552.6
35°	4056.6	3911.4	1995.3	1425.7	1316.0
37.5°	4009.9	3484.9	1691.7	1230.7	1199.2
40°	3958.1	2807.7	1358.6	1153.5	1186.0
42.5°	3914.5	2225.8	1141.3	1145.4	1225.6
45°	3872.8	1768.9	1029.6	1174.8	1277.4
47.5°	3848.5	1406.4	985.0	1210.4	1292.6
50°	3810.9	1127.1	968.7	1217.5	1263.2
52.5°	3731.7	929.1	963.6	1179.9	1211.4
55°	3557.0	788.0	949.4	1137.3	1213.4
57.5°	3235.1	700.6	916.9	1146.4	1263.2
60°	2764.0	632.6	884.4	1175.9	1269.3
62.5°	2199.4	570.7	867.2	1151.5	1209.4
65°	1649.1	511.8	842.8	1069.2	1108.8
67.5°	1154.5	461.0	788.0	966.7	988.0
70°	784.9	412.3	719.9	835.7	844.8
72.5°	528.0	363.5	635.7	700.6	714.9
75°	344.2	311.7	542.2	578.8	604.2
77.5°	219.3	265.0	449.8	496.5	529.0
80°	136.1	219.3	378.8	445.8	466.1
82.5°	76.2	182.8	328.0	398.0	409.2
85°	36.6	153.3	298.5	362.5	377.7
87.5°	9.1	130.0	263.0	300.6	300.6
90°	1.0	111.7	218.3	238.6	236.6
92.5°	1.0	98.5	189.9	203.1	199.0
95°	2.0	88.3	169.6	176.7	168.6
97.5°	2.0	83.3	156.4	151.3	139.1
100°	2.0	77.2	142.2	129.0	115.8
102.5°	2.0	69.0	130.0	113.7	102.6
105°	2.0	58.9	118.8	102.6	92.4
107.5°	2.0	46.7	106.6	93.4	85.3
110°	2.0	33.5	95.4	86.3	80.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.0	20.3	86.3	80.2	75.1
115°	2.0	7.1	77.2	73.1	68.0
117.5°	2.0	3.0	68.0	70.1	64.0
120°	2.0	3.0	56.9	66.0	60.9
122.5°	2.0	3.0	46.7	61.9	58.9
125°	2.0	2.0	35.5	56.9	55.8
127.5°	2.0	2.0	24.4	49.8	51.8
130°	2.0	2.0	12.2	40.6	45.7
132.5°	2.0	2.0	2.0	33.5	37.6
135°	2.0	2.0	2.0	24.4	30.5
137.5°	2.0	2.0	2.0	12.2	22.3
140°	2.0	2.0	2.0	2.0	9.1
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)