

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: P289961

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289961
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-7)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SSRK-LW-50-L835-CD1-U
Description: 5000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH ROUND FROSTED LENS AND 80 CRI 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4595.7 lumens
Efficiency: N/A
Efficacy: 134.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')
CIE Type: Semi-Direct

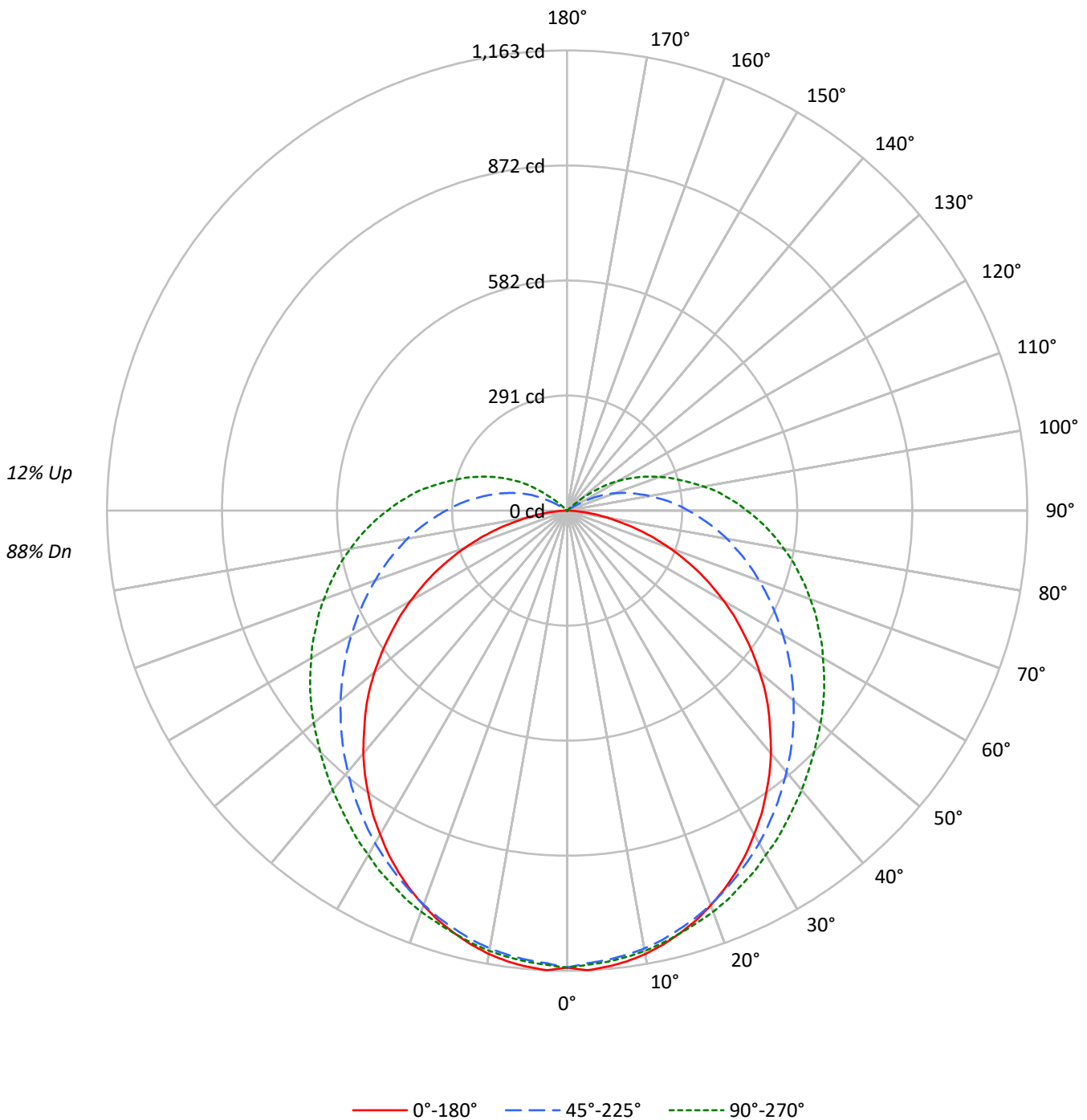
Input Watts (W): 34.1991
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	116	116	116	116	112	112	112	112	105	105	105	98	98	98	91	91	91	88				
1	103	97	92	87	99	94	89	84	87	83	79	81	78	75	75	73	71	67				
2	93	83	75	68	89	80	73	67	74	68	63	69	64	60	65	61	57	54				
3	84	72	63	56	80	70	61	54	65	58	52	60	54	50	56	51	47	44				
4	76	63	54	47	73	61	52	46	57	50	44	53	47	42	50	44	40	37				
5	70	56	47	40	67	54	46	39	51	43	37	48	41	36	45	39	34	32				
6	65	50	41	34	62	49	40	34	46	38	32	43	36	31	40	35	30	28				
7	60	46	36	30	57	44	36	30	42	34	28	39	32	27	37	31	26	24				
8	55	41	33	27	53	40	32	26	38	31	25	36	29	24	34	28	24	21				
9	52	38	30	24	50	37	29	23	35	28	23	33	27	22	31	25	21	19				
10	49	35	27	21	47	34	26	21	32	25	21	31	24	20	29	23	19	17				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	37293	37293	37293
5°	37445	29600	27498
10°	37175	24547	21728
15°	36739	20785	17842
20°	36196	17903	15098
25°	35587	15589	12979
30°	34828	13704	11321
35°	34036	12100	9999
40°	33197	10734	8923
45°	32232	9573	8024
50°	31123	8554	7282
55°	29829	7658	6649
60°	28518	6868	6082
65°	26835	6161	5588
70°	24522	5533	5152
75°	21451	4968	4744
80°	17080	4460	4365
85°	11102	3944	4018



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.1	2.4
10°-20°	311.3	6.8
20°-30°	472.0	10.3
30°-40°	576.1	12.5
40°-50°	620.5	13.5
50°-60°	609.4	13.3
60°-70°	550.6	12.0
70°-80°	458.4	10.0
80°-90°	351.6	7.7
90°-100°	254.6	5.5
100°-110°	164.5	3.6
110°-120°	88.6	1.9
120°-130°	28.0	0.6
130°-140°	1.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	892.4	19.4
0°-40°	1468.5	32.0
0°-60°	2698.3	58.7
0°-90°	4059.0	88.3
90°-120°	507.6	11.0
90°-150°	536.7	11.7
90°-180°	537.0	11.7
0°-180°	4595.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1155	1155	1155	1155	1155	
5°	1157	1153	1140	1149	1145	110
15°	1105	1103	1095	1108	1106	312
25°	1008	1010	1018	1040	1044	464
35°	876	888	918	954	964	548
45°	720	748	806	858	878	556
55°	546	600	688	765	793	489
65°	367	446	572	668	700	362
75°	185	307	462	569	606	196
85°	37	188	357	468	507	45
90°	1	142	306	416	454	2
95°	2	103	259	368	403	2
105°	2	36	169	264	297	3
115°	2	2	85	168	200	2
125°	1	1	1	67	96	1
135°	0	0	0	0	0	0
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°	1154.9	1154.9	1154.9	1154.9	1154.9
2.5°	1162.8	1157.9	1145.2	1153.1	1149.4
5°	1157.3	1153.1	1140.3	1148.8	1145.2
7.5°	1149.4	1145.2	1133.0	1141.5	1138.5
10°	1137.9	1133.6	1123.9	1132.4	1130.0
12.5°	1123.3	1120.3	1111.2	1121.5	1119.0
15°	1105.1	1102.6	1095.4	1107.5	1105.7
17.5°	1085.6	1083.2	1079.0	1091.7	1092.3
20°	1061.3	1060.7	1060.1	1076.5	1079.0
22.5°	1036.4	1037.0	1039.5	1059.5	1063.2
25°	1008.5	1009.7	1017.6	1039.5	1043.7
27.5°	978.7	983.0	994.5	1020.0	1026.7
30°	945.3	952.6	970.8	997.5	1004.8
32.5°	912.5	920.4	944.7	976.3	986.0
35°	876.0	887.6	918.0	954.4	964.1
37.5°	839.6	853.0	890.6	930.1	942.3
40°	801.3	818.9	862.1	906.4	922.2
42.5°	760.0	784.9	834.7	882.1	899.7
45°	720.5	747.9	805.6	858.4	878.5
47.5°	679.8	712.6	776.4	835.3	856.6
50°	634.9	674.3	747.2	812.3	835.9
52.5°	591.1	637.9	718.1	788.6	814.7
55°	545.6	599.6	688.3	764.9	792.8
57.5°	503.0	560.7	659.8	740.0	769.7
60°	457.5	523.1	630.0	716.9	746.6
62.5°	411.3	485.4	600.8	692.0	725.4
65°	366.9	446.5	572.3	668.3	700.5
67.5°	319.6	411.3	544.3	642.8	679.2
70°	274.6	374.8	516.4	618.5	654.3
72.5°	229.6	339.6	489.1	594.2	630.6
75°	185.3	307.4	462.3	569.2	605.7
77.5°	140.9	273.4	435.0	544.3	582.6
80°	102.7	243.6	410.7	518.8	555.9
82.5°	69.9	215.7	383.3	494.5	532.2
85°	37.1	188.3	356.6	467.8	506.7
87.5°	10.9	164.0	330.5	441.7	480.5
90°	1.2	141.6	306.2	416.1	453.8
92.5°	1.8	122.1	283.1	393.1	429.5
95°	2.4	102.7	259.4	367.5	403.4
97.5°	2.4	85.7	235.1	341.4	379.7
100°	2.4	69.3	212.0	314.7	349.9
102.5°	2.4	54.1	190.2	288.0	322.6
105°	2.4	36.5	168.9	264.3	297.1
107.5°	2.4	18.2	148.2	241.2	273.4
110°	2.4	3.6	127.6	217.5	248.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.8	2.4	107.5	192.6	224.2
115°	1.8	1.8	85.1	168.3	199.9
117.5°	1.8	1.8	60.8	145.8	174.4
120°	1.8	1.2	35.2	122.1	150.7
122.5°	1.2	1.2	11.5	94.8	125.8
125°	1.2	0.6	0.6	67.4	96.0
127.5°	1.2	0.6	0.0	37.7	65.0
130°	1.2	0.6	0.0	10.9	37.1
132.5°	1.2	0.6	0.0	0.0	7.9
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
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)