

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: P289960

Luminaire Tested: **8SSRK-LW-50-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289960
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-L830-CD1-U
Description: 5000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH ROUND FROSTED LENS AND 80 CRI 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4517.7 lumens
Efficiency: N/A
Efficacy: 132.1 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

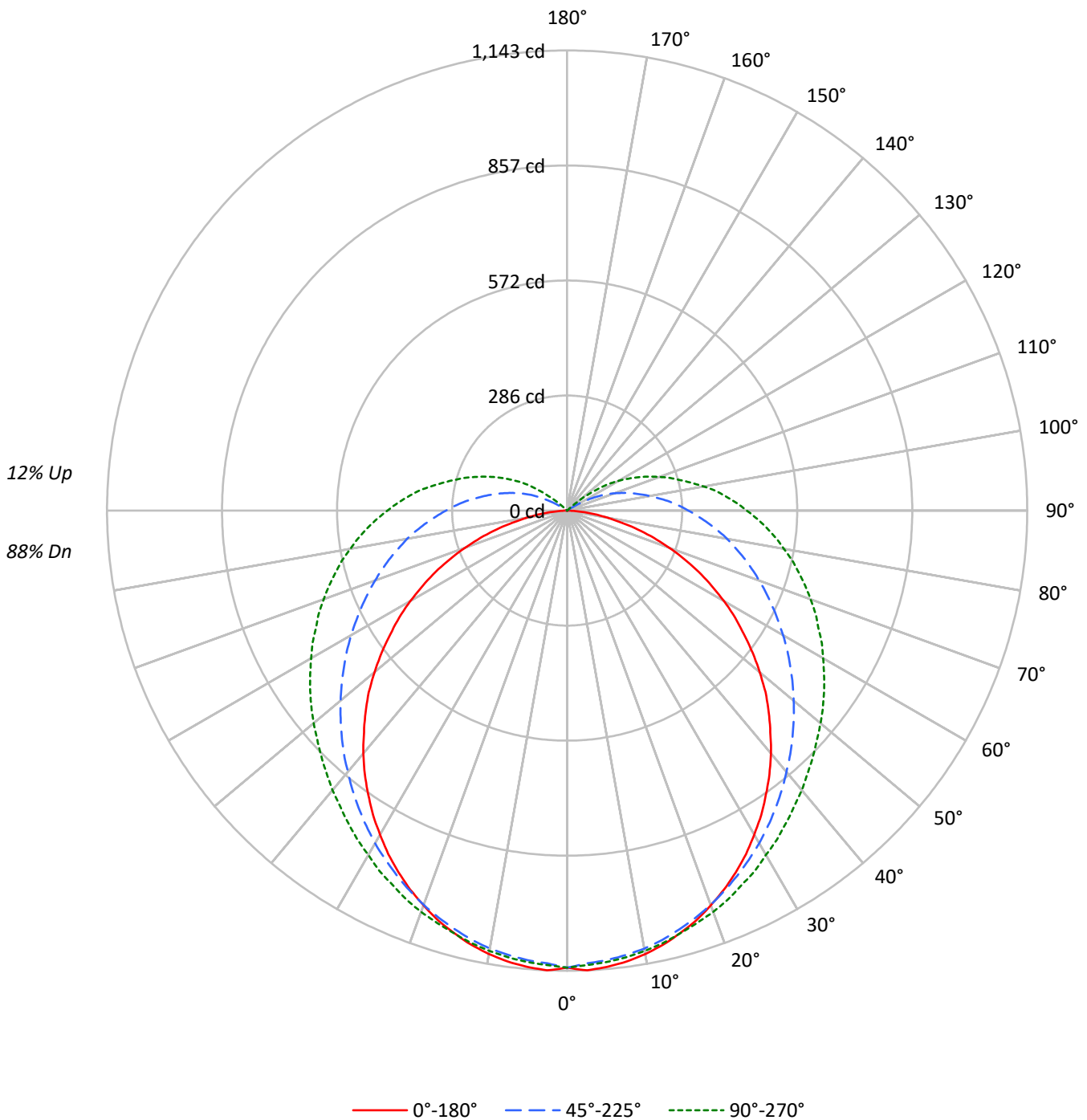
Input Watts (W): 34.1991
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	36661	36661	36661
5°	36811	29099	27033
10°	36544	24129	21358
15°	36114	20432	17538
20°	35582	17599	14842
25°	34983	15324	12759
30°	34239	13472	11130
35°	33461	11894	9830
40°	32634	10551	8773
45°	31686	9410	7888
50°	30593	8410	7159
55°	29321	7527	6537
60°	28031	6751	5979
65°	26382	6057	5493
70°	24103	5439	5065
75°	21092	4884	4664
80°	16781	4384	4291
85°	10893	3878	3950



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.2	2.4
10°-20°	306.0	6.8
20°-30°	464.0	10.3
30°-40°	566.3	12.5
40°-50°	609.9	13.5
50°-60°	599.1	13.3
60°-70°	541.3	12.0
70°-80°	450.6	10.0
80°-90°	345.6	7.7
90°-100°	250.2	5.5
100°-110°	161.7	3.6
110°-120°	87.1	1.9
120°-130°	27.6	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°	877.3	19.4
0°-40°	1443.6	32.0
0°-60°	2652.6	58.7
0°-90°	3990.1	88.3
90°-120°	499.0	11.0
90°-150°	527.6	11.7
90°-180°	528.0	11.7
0°-180°	4517.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1135	1135	1135	1135	1135	
5°	1138	1134	1121	1129	1126	108
15°	1086	1084	1077	1089	1087	306
25°	991	993	1000	1022	1026	457
35°	861	872	902	938	948	539
45°	708	735	792	844	864	546
55°	536	590	677	752	779	480
65°	361	439	563	657	689	356
75°	182	302	454	560	595	193
85°	36	185	351	460	498	44
90°	1	139	301	409	446	2
95°	2	101	255	361	397	2
105°	2	36	166	260	292	3
115°	2	2	84	165	196	2
125°	1	1	1	66	94	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°	1135.3	1135.3	1135.3	1135.3	1135.3
2.5°	1143.1	1138.3	1125.8	1133.5	1129.9
5°	1137.7	1133.5	1121.0	1129.3	1125.8
7.5°	1129.9	1125.8	1113.8	1122.2	1119.2
10°	1118.6	1114.4	1104.8	1113.2	1110.8
12.5°	1104.3	1101.3	1092.3	1102.5	1100.1
15°	1086.3	1083.9	1076.8	1088.7	1086.9
17.5°	1067.2	1064.8	1060.7	1073.2	1073.8
20°	1043.3	1042.7	1042.1	1058.3	1060.7
22.5°	1018.9	1019.4	1021.8	1041.5	1045.1
25°	991.4	992.6	1000.3	1021.8	1026.0
27.5°	962.1	966.3	977.6	1002.7	1009.3
30°	929.3	936.4	954.4	980.6	987.8
32.5°	897.0	904.8	928.7	959.7	969.3
35°	861.2	872.5	902.4	938.2	947.8
37.5°	825.4	838.5	875.5	914.3	926.3
40°	787.7	805.0	847.4	891.0	906.6
42.5°	747.1	771.6	820.6	867.2	884.5
45°	708.3	735.2	791.9	843.9	863.6
47.5°	668.3	700.5	763.2	821.2	842.1
50°	624.1	662.9	734.6	798.5	821.8
52.5°	581.1	627.1	705.9	775.2	800.9
55°	536.3	589.5	676.6	751.9	779.4
57.5°	494.5	551.2	648.6	727.4	756.7
60°	449.7	514.2	619.3	704.7	734.0
62.5°	404.3	477.2	590.6	680.2	713.1
65°	360.7	439.0	562.6	656.9	688.6
67.5°	314.1	404.3	535.1	631.9	667.7
70°	269.9	368.5	507.6	608.0	643.2
72.5°	225.7	333.8	480.8	584.1	619.9
75°	182.2	302.2	454.5	559.6	595.4
77.5°	138.6	268.7	427.6	535.1	572.7
80°	100.9	239.5	403.7	510.0	546.5
82.5°	68.7	212.0	376.8	486.1	523.2
85°	36.4	185.1	350.6	459.9	498.1
87.5°	10.7	161.2	324.9	434.2	472.4
90°	1.2	139.2	301.0	409.1	446.1
92.5°	1.8	120.0	278.3	386.4	422.2
95°	2.4	100.9	255.0	361.3	396.6
97.5°	2.4	84.2	231.1	335.6	373.3
100°	2.4	68.1	208.4	309.4	344.0
102.5°	2.4	53.2	186.9	283.1	317.1
105°	2.4	35.8	166.0	259.8	292.0
107.5°	2.4	17.9	145.7	237.1	268.7
110°	2.4	3.6	125.4	213.8	244.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.8	2.4	105.7	189.3	220.4
115°	1.8	1.8	83.6	165.4	196.5
117.5°	1.8	1.8	59.7	143.3	171.4
120°	1.8	1.2	34.6	120.0	148.1
122.5°	1.2	1.2	11.3	93.2	123.6
125°	1.2	0.6	0.6	66.3	94.4
127.5°	1.2	0.6	0.0	37.0	63.9
130°	1.2	0.6	0.0	10.7	36.4
132.5°	1.2	0.6	0.0	0.0	7.8
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)