

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: P289959

Luminaire Tested: **8SSRK-LW-50-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289959
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-L950-CD1-U
Description: 5000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH ROUND FROSTED LENS AND 90 CRI 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4211.0 lumens
Efficiency: N/A
Efficacy: 123.1 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

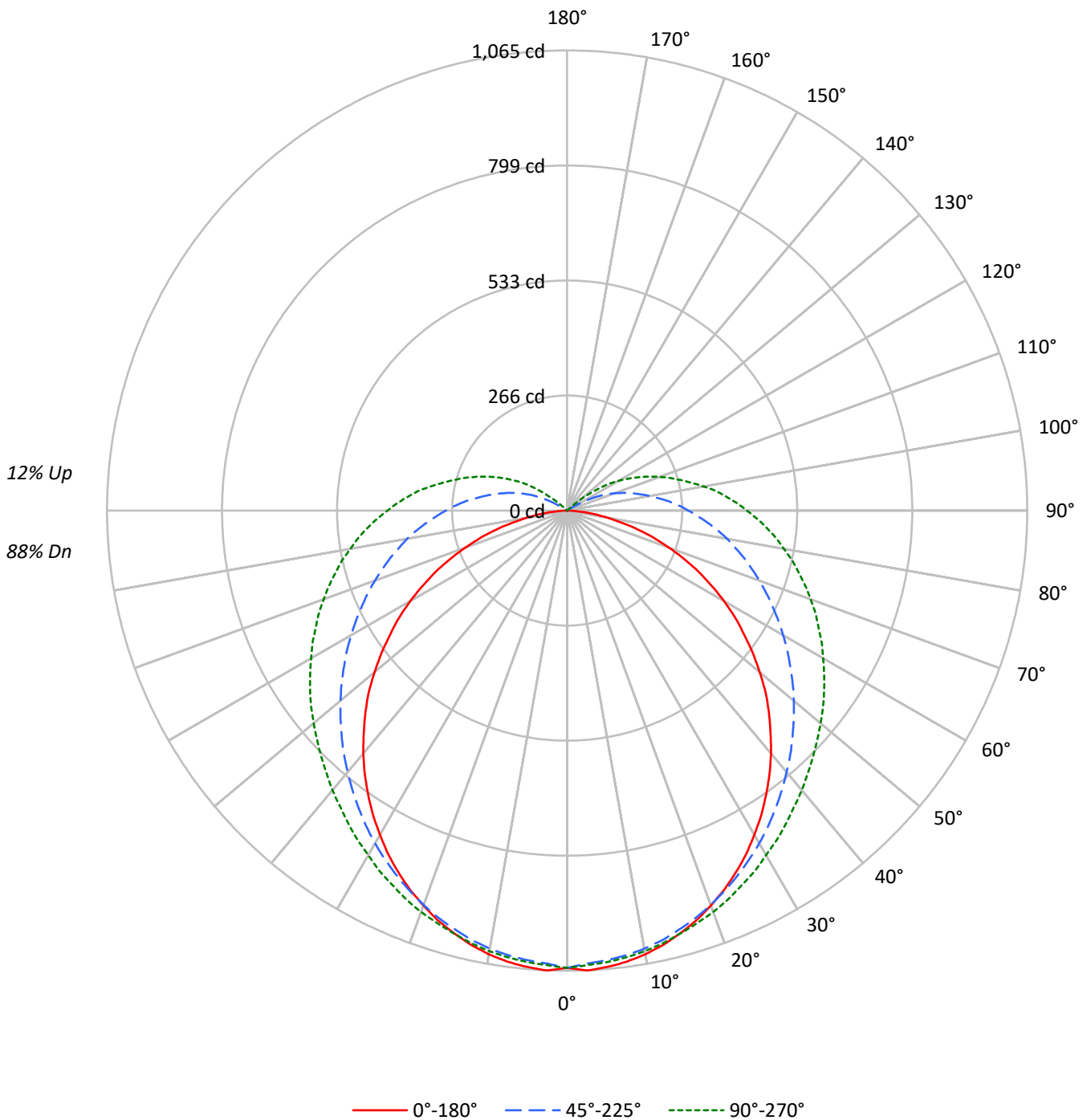
Input Watts (W): 34.1991
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									70									30									10									0
RW	70	50	30	10	70	50	30	10	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°	34171	34171	34171
5°	34310	27121	25196
10°	34061	22491	19909
15°	33664	19045	16347
20°	33167	16405	13833
25°	32605	14284	11892
30°	31914	12556	10374
35°	31188	11086	9162
40°	30417	9835	8176
45°	29534	8771	7352
50°	28515	7838	6673
55°	27330	7017	6092
60°	26130	6293	5573
65°	24590	5646	5120
70°	22468	5070	4721
75°	19657	4552	4347
80°	15650	4086	3999
85°	10174	3615	3682



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.9	2.4
10°-20°	285.2	6.8
20°-30°	432.5	10.3
30°-40°	527.9	12.5
40°-50°	568.5	13.5
50°-60°	558.4	13.3
60°-70°	504.5	12.0
70°-80°	420.0	10.0
80°-90°	322.2	7.7
90°-100°	233.3	5.5
100°-110°	150.7	3.6
110°-120°	81.2	1.9
120°-130°	25.7	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°	817.7	19.4
0°-40°	1345.5	32.0
0°-60°	2472.4	58.7
0°-90°	3719.1	88.3
90°-120°	465.1	11.0
90°-150°	491.8	11.7
90°-180°	492.0	11.7
0°-180°	4211.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1058	1058	1058	1058	1058	
5°	1060	1056	1045	1053	1049	101
15°	1013	1010	1004	1015	1013	286
25°	924	925	932	952	956	426
35°	803	813	841	874	883	502
45°	660	685	738	787	805	509
55°	500	549	631	701	726	448
65°	336	409	524	612	642	332
75°	170	282	424	522	555	180
85°	34	173	327	429	464	41
90°	1	130	281	381	416	2
95°	2	94	238	337	370	2
105°	2	33	155	242	272	2
115°	2	2	78	154	183	2
125°	1	1	1	62	88	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°	1058.2	1058.2	1058.2	1058.2	1058.2
2.5°	1065.4	1061.0	1049.3	1056.5	1053.2
5°	1060.4	1056.5	1044.8	1052.6	1049.3
7.5°	1053.2	1049.3	1038.2	1046.0	1043.2
10°	1042.6	1038.7	1029.8	1037.6	1035.4
12.5°	1029.3	1026.5	1018.1	1027.6	1025.4
15°	1012.6	1010.3	1003.7	1014.8	1013.1
17.5°	994.7	992.5	988.6	1000.3	1000.9
20°	972.5	971.9	971.4	986.4	988.6
22.5°	949.7	950.2	952.4	970.8	974.1
25°	924.0	925.2	932.4	952.4	956.3
27.5°	896.8	900.7	911.2	934.6	940.7
30°	866.2	872.8	889.5	914.0	920.7
32.5°	836.1	843.3	865.6	894.5	903.5
35°	802.7	813.3	841.1	874.5	883.4
37.5°	769.3	781.5	816.1	852.2	863.4
40°	734.2	750.4	789.9	830.5	845.0
42.5°	696.4	719.2	764.8	808.3	824.4
45°	660.2	685.2	738.1	786.6	804.9
47.5°	622.9	653.0	711.4	765.4	784.9
50°	581.7	617.9	684.7	744.2	766.0
52.5°	541.6	584.5	658.0	722.5	746.5
55°	499.9	549.4	630.7	700.8	726.4
57.5°	460.9	513.8	604.5	678.0	705.3
60°	419.2	479.3	577.3	656.9	684.1
62.5°	376.9	444.8	550.5	634.0	664.6
65°	336.2	409.1	524.4	612.3	641.8
67.5°	292.8	376.9	498.8	588.9	622.3
70°	251.6	343.5	473.2	566.7	599.5
72.5°	210.4	311.2	448.1	544.4	577.8
75°	169.8	281.7	423.6	521.6	555.0
77.5°	129.1	250.5	398.6	498.8	533.8
80°	94.1	223.2	376.3	475.4	509.3
82.5°	64.0	197.6	351.2	453.1	487.6
85°	34.0	172.6	326.8	428.6	464.3
87.5°	10.0	150.3	302.8	404.7	440.3
90°	1.1	129.7	280.6	381.3	415.8
92.5°	1.7	111.9	259.4	360.2	393.6
95°	2.2	94.1	237.7	336.8	369.6
97.5°	2.2	78.5	215.4	312.8	347.9
100°	2.2	63.5	194.3	288.3	320.6
102.5°	2.2	49.5	174.2	263.9	295.6
105°	2.2	33.4	154.8	242.1	272.2
107.5°	2.2	16.7	135.8	221.0	250.5
110°	2.2	3.3	116.9	199.3	227.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.7	2.2	98.5	176.5	205.4
115°	1.7	1.7	77.9	154.2	183.1
117.5°	1.7	1.7	55.7	133.6	159.8
120°	1.7	1.1	32.3	111.9	138.1
122.5°	1.1	1.1	10.6	86.8	115.2
125°	1.1	0.6	0.6	61.8	88.0
127.5°	1.1	0.6	0.0	34.5	59.6
130°	1.1	0.6	0.0	10.0	34.0
132.5°	1.1	0.6	0.0	0.0	7.2
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)