

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: P289913

Luminaire Tested: **4SSRK-LW-20-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289913
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: 4SSRK-LW-20-L835-CD1-U
Description: 2000 LUMEN, 4 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: 1827.6 lumens
Efficiency: N/A
Efficacy: 133.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')
CIE Type: Semi-Direct

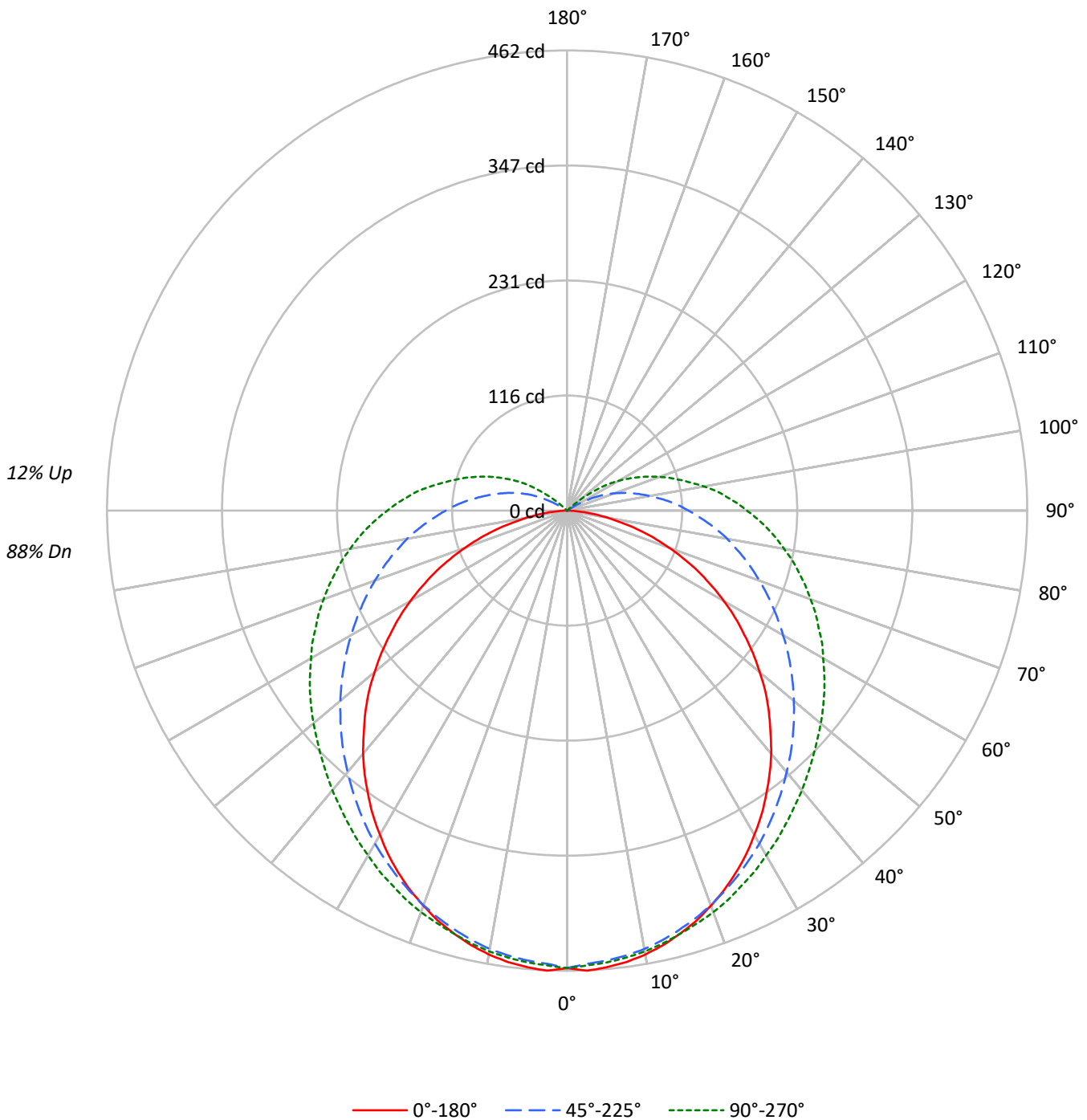
Input Watts (W): 13.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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		76	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°	29663	29663	29663
5°	29726	23520	21870
10°	29458	19487	17282
15°	29061	16494	14190
20°	28577	14202	12008
25°	28030	12363	10324
30°	27374	10865	9005
35°	26690	9589	7953
40°	25961	8505	7097
45°	25121	7585	6381
50°	24169	6777	5791
55°	23051	6065	5289
60°	21914	5438	4837
65°	20467	4879	4445
70°	18502	4382	4098
75°	15915	3934	3774
80°	12274	3529	3472
85°	7379	3121	3196



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.4	2.4
10°-20°	123.8	6.8
20°-30°	187.7	10.3
30°-40°	229.1	12.5
40°-50°	246.7	13.5
50°-60°	242.3	13.3
60°-70°	219.0	12.0
70°-80°	182.3	10.0
80°-90°	139.8	7.6
90°-100°	101.2	5.5
100°-110°	65.4	3.6
110°-120°	35.2	1.9
120°-130°	11.1	0.6
130°-140°	0.4	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°	354.9	19.4
0°-40°	584.0	32.0
0°-60°	1073.1	58.7
0°-90°	1614.2	88.3
90°-120°	201.9	11.0
90°-150°	213.4	11.7
90°-180°	213.0	11.7
0°-180°	1827.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	459	459	459	459	459	
5°	460	458	454	457	455	44
15°	440	438	436	440	440	124
25°	401	402	405	413	415	185
35°	348	353	365	380	383	218
45°	286	297	320	341	349	221
55°	217	238	274	304	315	194
65°	146	178	228	266	279	144
75°	74	122	184	226	241	78
85°	15	75	142	186	202	18
90°	0	56	122	166	180	1
95°	1	41	103	146	160	1
105°	1	14	67	105	118	1
115°	1	1	34	67	80	1
125°	0	0	0	27	38	0
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°	459.3	459.3	459.3	459.3	459.3
2.5°	462.4	460.5	455.4	458.5	457.1
5°	460.2	458.5	453.5	456.9	455.4
7.5°	457.1	455.4	450.6	454.0	452.7
10°	452.5	450.8	446.9	450.3	449.4
12.5°	446.7	445.5	441.9	446.0	445.0
15°	439.5	438.5	435.6	440.4	439.7
17.5°	431.7	430.8	429.1	434.1	434.4
20°	422.1	421.8	421.6	428.1	429.1
22.5°	412.2	412.4	413.4	421.3	422.8
25°	401.0	401.5	404.7	413.4	415.1
27.5°	389.2	390.9	395.5	405.6	408.3
30°	375.9	378.8	386.1	396.7	399.6
32.5°	362.9	366.0	375.7	388.2	392.1
35°	348.4	353.0	365.0	379.5	383.4
37.5°	333.9	339.2	354.2	369.9	374.7
40°	318.7	325.7	342.8	360.5	366.7
42.5°	302.2	312.1	331.9	350.8	357.8
45°	286.5	297.4	320.4	341.4	349.3
47.5°	270.3	283.4	308.8	332.2	340.6
50°	252.5	268.2	297.2	323.0	332.4
52.5°	235.1	253.7	285.6	313.6	324.0
55°	216.9	238.5	273.7	304.2	315.3
57.5°	200.0	223.0	262.4	294.3	306.1
60°	181.9	208.0	250.5	285.1	296.9
62.5°	163.6	193.0	238.9	275.2	288.5
65°	145.9	177.6	227.6	265.8	278.6
67.5°	127.1	163.6	216.5	255.6	270.1
70°	109.2	149.1	205.4	245.9	260.2
72.5°	91.3	135.0	194.5	236.3	250.8
75°	73.7	122.2	183.9	226.4	240.9
77.5°	56.0	108.7	173.0	216.5	231.7
80°	40.8	96.9	163.3	206.3	221.1
82.5°	27.8	85.8	152.4	196.7	211.6
85°	14.7	74.9	141.8	186.0	201.5
87.5°	4.3	65.2	131.4	175.6	191.1
90°	0.5	56.3	121.8	165.5	180.5
92.5°	0.7	48.6	112.6	156.3	170.8
95°	1.0	40.8	103.2	146.2	160.4
97.5°	1.0	34.1	93.5	135.8	151.0
100°	1.0	27.5	84.3	125.1	139.2
102.5°	1.0	21.5	75.6	114.5	128.3
105°	1.0	14.5	67.2	105.1	118.1
107.5°	1.0	7.2	58.9	95.9	108.7
110°	1.0	1.4	50.7	86.5	98.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.7	1.0	42.8	76.6	89.1
115°	0.7	0.7	33.8	66.9	79.5
117.5°	0.7	0.7	24.2	58.0	69.3
120°	0.7	0.5	14.0	48.6	59.9
122.5°	0.5	0.5	4.6	37.7	50.0
125°	0.5	0.2	0.2	26.8	38.2
127.5°	0.5	0.2	0.0	15.0	25.9
130°	0.5	0.2	0.0	4.3	14.7
132.5°	0.5	0.2	0.0	0.0	3.1
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)