

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: P289733

Luminaire Tested: **4SSRK-TS-20-L935-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P289733  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-6)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SSRK-TS-20-L935-CD1-U  
Description: 2000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH TRILOBE SMOOTH LENS AND 90 CRI 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1554.4 lumens  
Efficiency: N/A  
Efficacy: 113.5 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.4  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')  
CIE Type: Semi-Direct

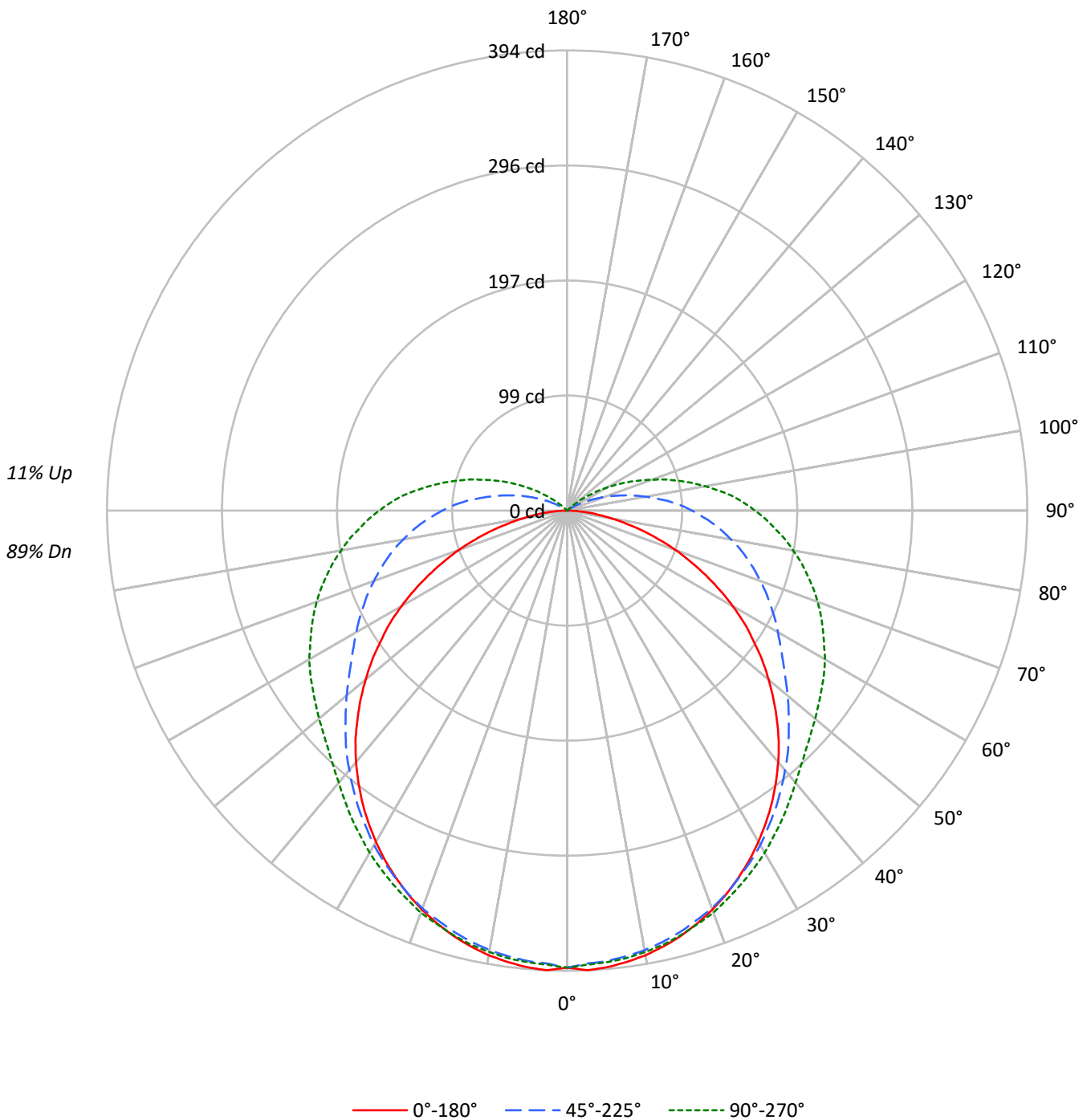
Input Watts (W): 13.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	92	92	92	89
1	103	97	91	87	99	94	89	84	87	83	79	81	78	75	76	73	71	68
2	93	83	75	68	89	80	73	67	75	68	63	70	65	60	65	61	57	54
3	84	72	63	56	80	69	61	54	65	58	52	61	55	50	57	52	47	45
4	76	63	54	46	73	61	52	45	57	50	44	53	47	42	50	45	40	37
5	70	56	47	39	67	54	45	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	41	35	30	28
7	60	46	36	30	57	44	36	29	42	34	28	39	33	28	37	31	27	24
8	56	41	33	27	53	40	32	26	38	31	25	36	29	25	34	28	24	22
9	52	38	29	24	50	37	29	23	35	28	23	33	27	22	31	26	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°	25271	25271	25271
5°	25353	20081	18643
10°	25168	16662	14759
15°	24922	14146	12141
20°	24609	12208	10251
25°	24242	10613	8777
30°	23849	9309	7623
35°	23411	8178	6673
40°	22898	7200	5887
45°	22280	6352	5283
50°	21566	5619	4829
55°	20702	5001	4462
60°	19733	4524	4153
65°	18363	4120	3856
70°	16740	3752	3595
75°	14512	3416	3335
80°	11672	3084	3084
85°	7931	2756	2836



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	37.0	2.4
10°-20°	106.1	6.8
20°-30°	161.0	10.4
30°-40°	195.8	12.6
40°-50°	208.9	13.4
50°-60°	204.9	13.2
60°-70°	187.2	12.0
70°-80°	158.9	10.2
80°-90°	123.6	8.0
90°-100°	87.2	5.6
100°-110°	51.8	3.3
110°-120°	24.5	1.6
120°-130°	7.1	0.5
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°	304.1	19.6
0°-40°	499.9	32.2
0°-60°	913.7	58.8
0°-90°	1383.4	89.0
90°-120°	163.5	10.5
90°-150°	171.0	11.0
90°-180°	171.0	11.0
0°-180°	1554.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	391	391	391	391	391	
5°	392	391	387	389	388	37
15°	377	376	374	377	376	106
25°	347	347	347	353	353	160
35°	306	307	311	319	322	191
45°	254	258	268	282	289	196
55°	195	203	226	255	266	174
65°	131	148	192	229	242	130
75°	67	102	160	199	213	71
85°	16	65	125	165	179	18
90°	1	48	107	147	161	1
95°	1	32	88	127	142	1
105°	1	9	50	85	98	1
115°	1	1	20	47	58	1
125°	1	0	1	16	23	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°	391.3	391.3	391.3	391.3	391.3
2.5°	393.9	392.5	388.2	390.4	389.2
5°	392.5	391.1	387.2	389.4	388.2
7.5°	389.8	388.8	385.0	387.4	386.6
10°	386.6	385.6	382.1	385.0	383.8
12.5°	382.1	381.1	378.3	381.1	380.7
15°	376.9	376.0	373.6	376.9	376.2
17.5°	370.6	370.0	367.9	372.0	371.2
20°	363.5	363.1	362.4	366.1	366.3
22.5°	355.7	355.7	355.3	359.4	359.6
25°	346.8	347.0	347.4	352.9	352.9
27.5°	337.7	338.3	339.3	344.6	345.8
30°	327.5	328.6	330.8	336.5	338.3
32.5°	316.8	318.4	320.8	327.9	329.8
35°	305.6	307.2	311.3	319.0	321.7
37.5°	293.6	295.5	300.7	309.5	312.9
40°	281.1	283.1	290.2	301.2	304.2
42.5°	268.3	271.1	279.8	291.6	296.3
45°	254.1	258.3	268.3	282.5	289.2
47.5°	239.9	244.9	257.3	274.8	282.9
50°	225.3	230.9	246.4	267.9	277.2
52.5°	210.6	216.9	235.6	261.4	271.5
55°	194.8	203.1	225.7	255.1	266.0
57.5°	180.2	189.1	216.7	248.8	260.8
60°	163.8	175.1	208.4	242.3	254.9
62.5°	147.5	161.1	200.5	235.6	248.0
65°	130.9	147.7	192.2	228.9	241.7
67.5°	114.5	134.1	184.5	222.0	235.2
70°	98.8	122.4	175.9	214.9	228.3
72.5°	82.4	112.0	168.0	207.4	220.8
75°	67.2	101.9	159.7	199.3	212.9
77.5°	51.7	92.3	151.6	191.2	205.2
80°	38.8	83.4	142.7	182.6	196.4
82.5°	26.4	74.5	133.9	173.9	188.3
85°	15.8	64.9	125.2	165.0	178.8
87.5°	7.1	56.6	115.7	155.9	170.3
90°	1.2	48.1	106.9	147.1	160.9
92.5°	1.4	40.4	98.0	137.8	151.6
95°	1.2	32.3	88.3	127.4	142.3
97.5°	1.2	25.4	77.9	117.3	130.9
100°	1.0	18.9	68.0	106.5	119.9
102.5°	1.0	13.4	59.1	96.0	109.4
105°	1.0	8.7	50.3	85.4	98.4
107.5°	1.0	4.9	41.8	75.3	88.5
110°	1.0	1.8	34.1	66.2	77.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.8	0.8	26.6	56.0	67.4
115°	0.8	0.8	20.5	46.9	58.0
117.5°	0.8	0.6	14.0	38.4	48.5
120°	0.8	0.6	8.7	30.6	39.4
122.5°	0.6	0.4	4.3	22.7	31.5
125°	0.6	0.4	1.0	15.6	22.9
127.5°	0.6	0.2	0.0	9.3	15.8
130°	0.4	0.2	0.0	4.5	9.3
132.5°	0.4	0.2	0.0	0.8	4.1
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)