

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: P289732

Luminaire Tested: **4SSRK-TS-20-L930-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P289732  
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-L930-CD1-U  
Description: 2000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH TRILOBE SMOOTH LENS AND 90 CRI 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1464.4 lumens  
Efficiency: N/A  
Efficacy: 106.9 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

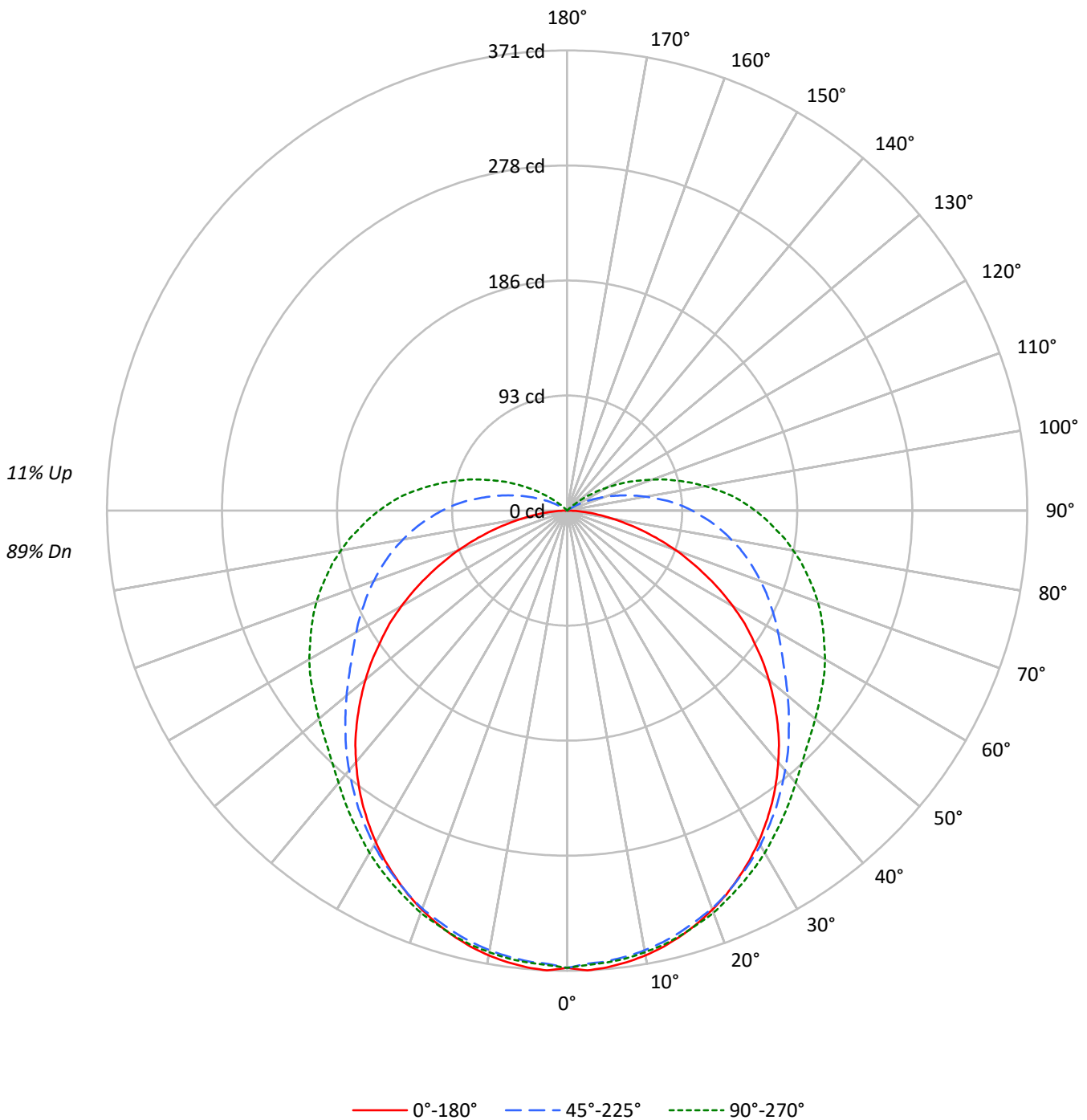
Input Watts (W): 13.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	23805	23805	23805
5°	23880	18919	17562
10°	23710	15698	13902
15°	23474	13329	11440
20°	23181	11504	9658
25°	22837	9999	8269
30°	22473	8769	7182
35°	22055	7705	6285
40°	21570	6783	5546
45°	20991	5983	4976
50°	20312	5293	4551
55°	19501	4711	4204
60°	18589	4261	3912
65°	17297	3880	3633
70°	15774	3537	3388
75°	13670	3219	3141
80°	10980	2905	2907
85°	7479	2597	2671



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	34.9	2.4
10°-20°	99.9	6.8
20°-30°	151.7	10.4
30°-40°	184.4	12.6
40°-50°	196.8	13.4
50°-60°	193.0	13.2
60°-70°	176.4	12.0
70°-80°	149.7	10.2
80°-90°	116.5	8.0
90°-100°	82.1	5.6
100°-110°	48.8	3.3
110°-120°	23.1	1.6
120°-130°	6.7	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°	286.5	19.6
0°-40°	470.9	32.2
0°-60°	860.8	58.8
0°-90°	1303.3	89.0
90°-120°	154.0	10.5
90°-150°	161.1	11.0
90°-180°	161.0	11.0
0°-180°	1464.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	369	369	369	369	369	
5°	370	368	365	367	366	35
15°	355	354	352	355	354	100
25°	327	327	327	332	332	151
35°	288	289	293	300	303	180
45°	239	243	253	266	272	185
55°	184	191	213	240	251	164
65°	123	139	181	216	228	122
75°	63	96	150	188	200	67
85°	15	61	118	155	168	17
90°	1	45	101	139	152	1
95°	1	30	83	120	134	1
105°	1	8	47	80	93	1
115°	1	1	19	44	55	1
125°	1	0	1	15	22	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°	368.6	368.6	368.6	368.6	368.6
2.5°	371.1	369.7	365.7	367.8	366.7
5°	369.7	368.4	364.8	366.9	365.7
7.5°	367.3	366.3	362.7	365.0	364.2
10°	364.2	363.2	360.0	362.7	361.5
12.5°	360.0	359.0	356.4	359.0	358.7
15°	355.0	354.3	352.0	355.0	354.5
17.5°	349.1	348.5	346.6	350.4	349.7
20°	342.4	342.0	341.5	344.9	345.1
22.5°	335.1	335.1	334.8	338.6	338.8
25°	326.7	326.9	327.3	332.5	332.5
27.5°	318.1	318.7	319.7	324.6	325.8
30°	308.6	309.5	311.6	317.0	318.7
32.5°	298.4	300.0	302.3	308.9	310.7
35°	287.9	289.4	293.3	300.5	303.0
37.5°	276.6	278.4	283.3	291.6	294.8
40°	264.8	266.7	273.4	283.7	286.6
42.5°	252.7	255.4	263.6	274.7	279.1
45°	239.4	243.4	252.7	266.1	272.4
47.5°	226.0	230.8	242.4	258.9	266.5
50°	212.2	217.6	232.1	252.4	261.2
52.5°	198.4	204.4	222.0	246.2	255.8
55°	183.5	191.4	212.6	240.3	250.6
57.5°	169.8	178.2	204.2	234.4	245.7
60°	154.3	165.0	196.3	228.3	240.1
62.5°	139.0	151.8	188.9	222.0	233.6
65°	123.3	139.2	181.0	215.7	227.7
67.5°	107.8	126.4	173.8	209.2	221.6
70°	93.1	115.3	165.8	202.5	215.1
72.5°	77.6	105.5	158.3	195.4	208.0
75°	63.3	96.0	150.5	187.7	200.5
77.5°	48.8	87.0	142.8	180.1	193.3
80°	36.5	78.6	134.4	172.1	185.1
82.5°	24.9	70.2	126.2	163.8	177.4
85°	14.9	61.2	118.0	155.4	168.4
87.5°	6.7	53.3	109.0	146.8	160.4
90°	1.1	45.3	100.8	138.6	151.6
92.5°	1.3	38.0	92.3	129.8	142.8
95°	1.1	30.4	83.2	120.1	134.0
97.5°	1.1	23.9	73.4	110.5	123.3
100°	1.0	17.8	64.0	100.4	113.0
102.5°	1.0	12.6	55.6	90.4	103.0
105°	1.0	8.2	47.4	80.5	92.7
107.5°	1.0	4.6	39.4	70.9	83.4
110°	1.0	1.7	32.1	62.3	72.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.8	0.8	25.0	52.8	63.5
115°	0.8	0.8	19.3	44.2	54.7
117.5°	0.8	0.6	13.2	36.1	45.7
120°	0.8	0.6	8.2	28.9	37.1
122.5°	0.6	0.4	4.0	21.4	29.6
125°	0.6	0.4	1.0	14.7	21.6
127.5°	0.6	0.2	0.0	8.8	14.9
130°	0.4	0.2	0.0	4.2	8.8
132.5°	0.4	0.2	0.0	0.8	3.8
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)