

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: P289739

Luminaire Tested: **4SSRK-TS-20-L850-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P289739  
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-L850-CD1-U  
Description: 2000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH TRILOBE SMOOTH LENS AND 80 CRI 5000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

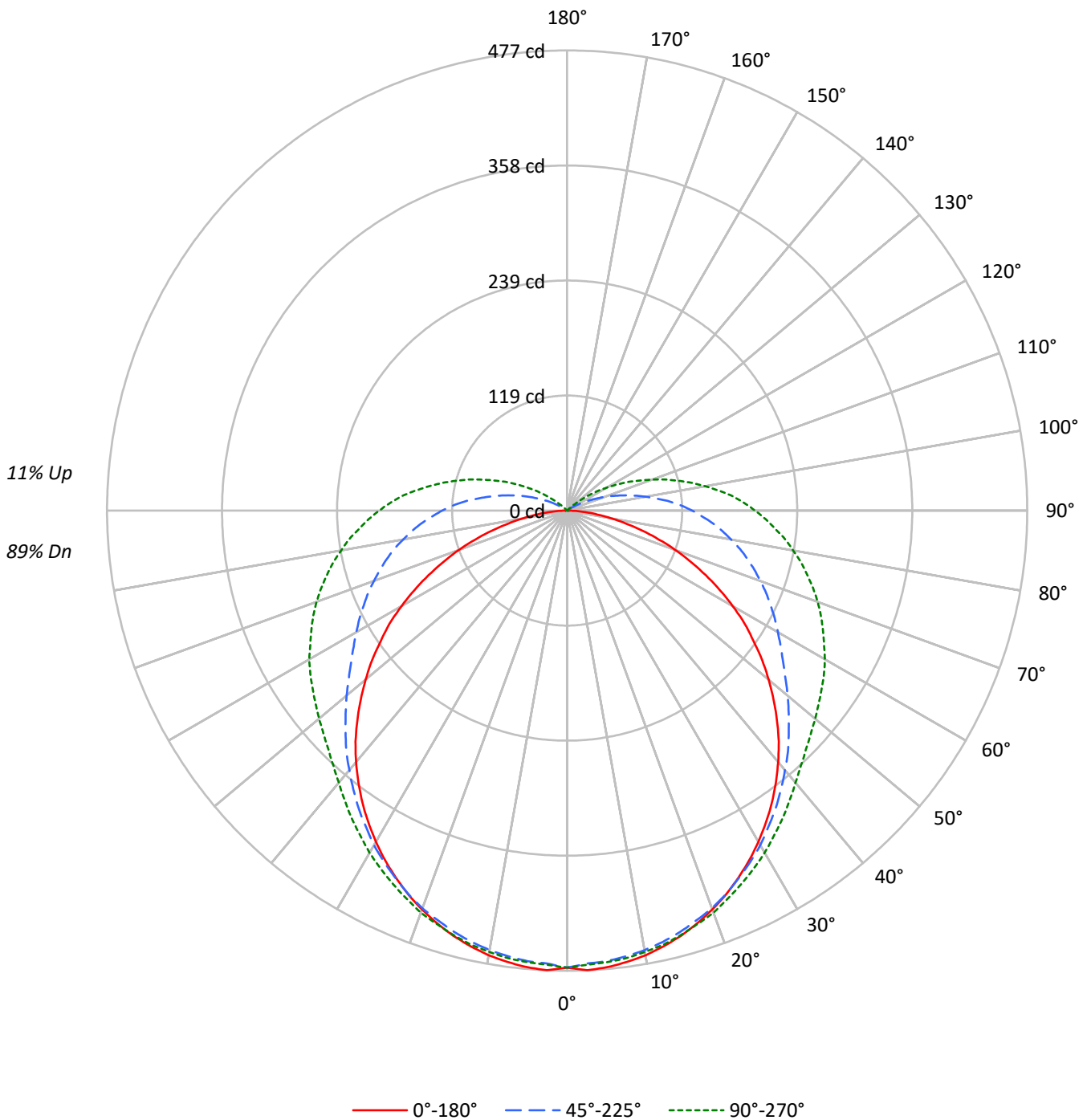
Lumens per Lamp: N/A  
Luminaire Lumens: 1881.9 lumens  
Efficiency: N/A  
Efficacy: 137.4 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.4  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')  
CIE Type: Semi-Direct  
  
Input Watts (W): 13.7  
Input Voltage (V): NR  
Input 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°	30593	30593	30593
5°	30695	24313	22571
10°	30467	20172	17867
15°	30165	17126	14700
20°	29788	14782	12411
25°	29352	12849	10625
30°	28874	11271	9230
35°	28344	9901	8077
40°	27721	8716	7128
45°	26971	7690	6395
50°	26103	6803	5847
55°	25070	6054	5403
60°	23890	5477	5028
65°	22235	4988	4668
70°	20264	4544	4353
75°	17557	4137	4037
80°	14109	3733	3734
85°	9637	3337	3432



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.8	2.4
10°-20°	128.4	6.8
20°-30°	195.0	10.4
30°-40°	237.0	12.6
40°-50°	252.9	13.4
50°-60°	248.1	13.2
60°-70°	226.6	12.0
70°-80°	192.3	10.2
80°-90°	149.7	8.0
90°-100°	105.5	5.6
100°-110°	62.7	3.3
110°-120°	29.7	1.6
120°-130°	8.6	0.5
130°-140°	0.5	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°	368.2	19.6
0°-40°	605.2	32.2
0°-60°	1106.2	58.8
0°-90°	1674.8	89.0
90°-120°	198.0	10.5
90°-150°	207.1	11.0
90°-180°	207.0	11.0
0°-180°	1881.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	474	474	474	474	474	
5°	475	473	469	472	470	45
15°	456	455	452	456	456	129
25°	420	420	421	427	427	194
35°	370	372	377	386	389	231
45°	308	313	325	342	350	237
55°	236	246	273	309	322	211
65°	158	179	233	277	293	157
75°	81	123	193	241	258	86
85°	19	79	152	200	216	21
90°	2	58	130	178	195	2
95°	2	39	107	154	172	1
105°	1	11	61	103	119	1
115°	1	1	25	57	70	1
125°	1	0	1	19	28	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°	473.7	473.7	473.7	473.7	473.7
2.5°	476.9	475.2	470.0	472.7	471.2
5°	475.2	473.4	468.8	471.5	470.0
7.5°	472.0	470.7	466.1	469.0	468.0
10°	468.0	466.8	462.6	466.1	464.6
12.5°	462.6	461.4	458.0	461.4	460.9
15°	456.2	455.3	452.3	456.2	455.5
17.5°	448.6	447.9	445.4	450.3	449.4
20°	440.0	439.5	438.8	443.2	443.5
22.5°	430.7	430.7	430.2	435.1	435.4
25°	419.9	420.1	420.6	427.2	427.2
27.5°	408.8	409.6	410.8	417.2	418.6
30°	396.5	397.8	400.5	407.3	409.6
32.5°	383.5	385.5	388.4	397.0	399.2
35°	370.0	372.0	376.9	386.2	389.4
37.5°	355.5	357.7	364.1	374.7	378.8
40°	340.3	342.7	351.3	364.6	368.3
42.5°	324.8	328.2	338.8	353.1	358.7
45°	307.6	312.8	324.8	342.0	350.1
47.5°	290.4	296.5	311.5	332.7	342.5
50°	272.7	279.6	298.3	324.3	335.6
52.5°	255.0	262.6	285.2	316.4	328.7
55°	235.9	245.9	273.2	308.8	322.1
57.5°	218.2	229.0	262.4	301.2	315.7
60°	198.3	212.0	252.3	293.3	308.6
62.5°	178.6	195.1	242.7	285.2	300.2
65°	158.5	178.9	232.7	277.1	292.6
67.5°	138.6	162.4	223.3	268.8	284.8
70°	119.6	148.1	213.0	260.2	276.4
72.5°	99.7	135.6	203.4	251.1	267.3
75°	81.3	123.3	193.4	241.3	257.7
77.5°	62.6	111.8	183.5	231.4	248.4
80°	46.9	101.0	172.7	221.1	237.8
82.5°	31.9	90.2	162.2	210.6	228.0
85°	19.2	78.6	151.6	199.7	216.4
87.5°	8.6	68.5	140.0	188.7	206.1
90°	1.5	58.2	129.5	178.1	194.8
92.5°	1.7	48.9	118.7	166.8	183.5
95°	1.5	39.1	106.9	154.3	172.2
97.5°	1.5	30.7	94.3	142.0	158.5
100°	1.2	22.8	82.3	129.0	145.2
102.5°	1.2	16.2	71.5	116.2	132.4
105°	1.2	10.6	60.9	103.4	119.2
107.5°	1.2	5.9	50.6	91.1	107.1
110°	1.2	2.2	41.3	80.1	93.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.0	1.0	32.2	67.8	81.6
115°	1.0	1.0	24.8	56.8	70.3
117.5°	1.0	0.7	17.0	46.4	58.7
120°	1.0	0.7	10.6	37.1	47.7
122.5°	0.7	0.5	5.2	27.5	38.1
125°	0.7	0.5	1.2	18.9	27.8
127.5°	0.7	0.2	0.0	11.3	19.2
130°	0.5	0.2	0.0	5.4	11.3
132.5°	0.5	0.2	0.0	1.0	4.9
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)