

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: P289643

Luminaire Tested: **4SSRK-TB-20-L830-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P289643  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-1)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SSRK-TB-20-L830-CD1-U  
Description: 2000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH TRILOBE RIBBED LENS AND 80 CRI 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1910.1 lumens  
Efficiency: N/A  
Efficacy: 139.4 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.08 / 1.24  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')  
CIE Type: Direct

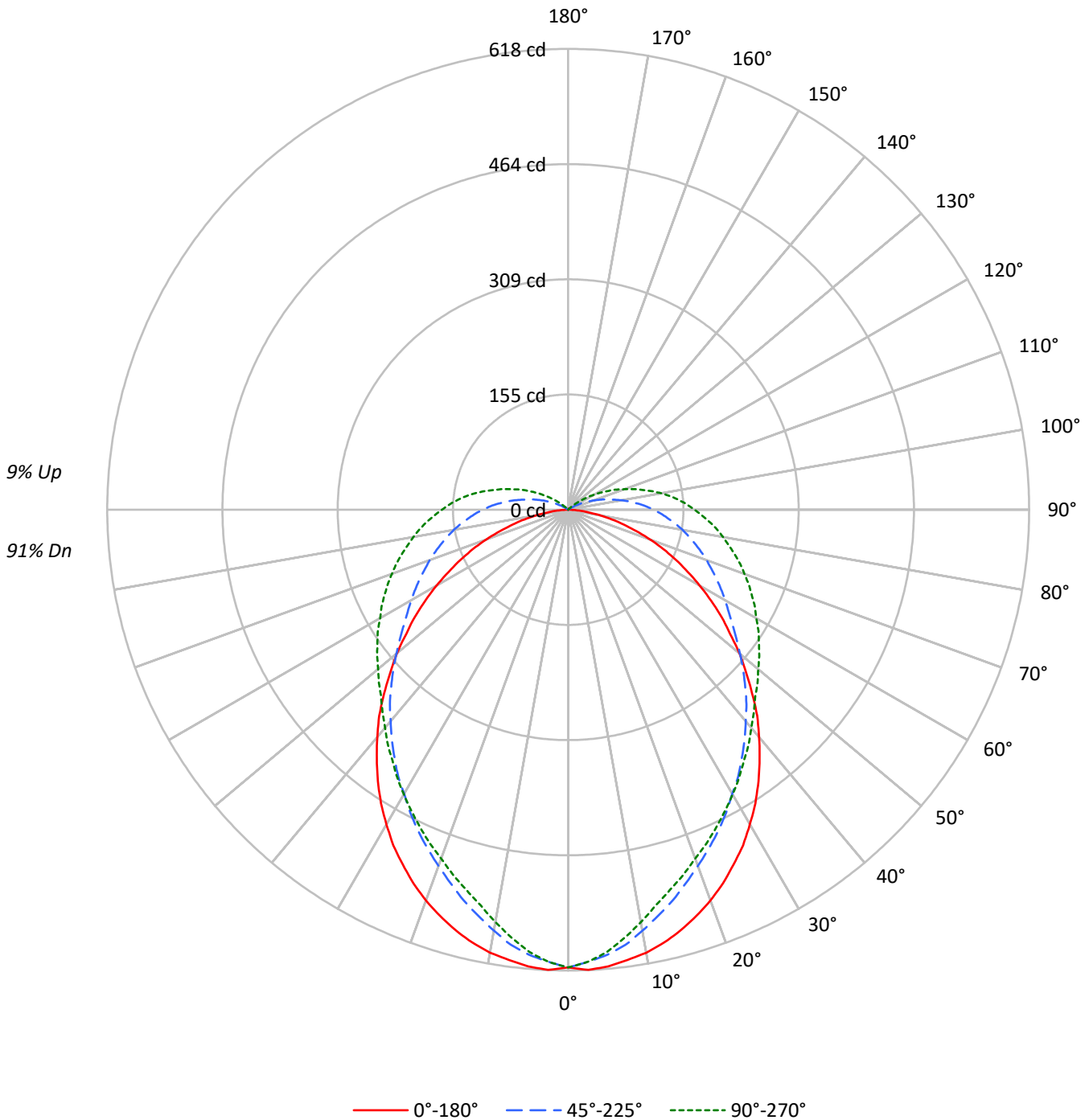
Input Watts (W): 13.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	91
1	104	98	93	89	100	95	90	86	89	85	82	84	80	78	78	76	74	71
2	94	85	77	71	90	82	75	69	77	71	66	72	67	63	68	64	60	58
3	85	74	65	58	82	72	64	57	67	60	55	63	58	53	60	55	51	48
4	78	65	56	49	75	63	55	48	60	52	47	56	50	45	53	48	43	41
5	72	58	49	42	69	57	48	41	53	46	40	50	44	39	48	42	38	35
6	66	53	43	37	64	51	42	36	48	41	35	46	39	34	43	38	33	31
7	61	48	39	32	59	46	38	32	44	37	31	42	35	30	40	34	29	27
8	57	44	35	29	55	42	34	29	40	33	28	38	32	27	36	31	26	24
9	54	40	32	26	52	39	31	26	37	30	25	35	29	24	34	28	24	22
10	50	37	29	24	48	36	28	23	34	28	23	33	27	22	31	26	22	20

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	39641	39641	39641
5°	39713	31081	28593
10°	39269	24995	21597
15°	38603	20534	17033
20°	37757	17127	13931
25°	36691	14529	11684
30°	35479	12376	9933
35°	34059	10666	8521
40°	32437	9185	7389
45°	30592	7941	6479
50°	28678	6855	5793
55°	26706	5954	5237
60°	24576	5267	4739
65°	22375	4703	4333
70°	19824	4207	3958
75°	16693	3762	3619
80°	13086	3363	3309
85°	8232	2958	3020



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.8	3.0
10°-20°	154.9	8.1
20°-30°	224.1	11.7
30°-40°	260.7	13.6
40°-50°	265.3	13.9
50°-60°	246.9	12.9
60°-70°	215.0	11.3
70°-80°	175.0	9.2
80°-90°	132.6	6.9
90°-100°	91.9	4.8
100°-110°	54.0	2.8
110°-120°	25.3	1.3
120°-130°	7.2	0.4
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°	435.8	22.8
0°-40°	696.5	36.5
0°-60°	1208.7	63.3
0°-90°	1731.2	90.6
90°-120°	171.3	9.0
90°-150°	178.9	9.4
90°-180°	179.0	9.4
0°-180°	1910.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	614	614	614	614	614	
5°	615	610	599	599	595	58
15°	584	568	542	533	528	164
25°	525	502	476	472	470	242
35°	445	421	406	410	411	278
45°	349	335	335	349	355	269
55°	251	250	269	301	312	224
65°	160	173	219	258	272	158
75°	77	113	176	216	231	83
85°	16	71	134	177	190	19
90°	0	51	114	156	169	1
95°	0	33	94	135	149	0
105°	0	8	53	90	102	0
115°	0	0	21	49	60	0
125°	0	0	1	16	24	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°	1	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°	613.8	613.8	613.8	613.8	613.8
2.5°	617.7	614.8	607.0	609.9	607.0
5°	614.8	609.9	599.3	599.3	595.4
7.5°	609.0	603.2	588.7	583.8	579.0
10°	603.2	594.5	573.2	567.4	561.6
12.5°	594.5	581.9	557.7	549.0	543.2
15°	583.8	568.4	542.3	532.6	527.8
17.5°	571.3	553.9	524.9	517.1	513.3
20°	557.7	537.4	508.4	501.7	497.8
22.5°	542.3	519.1	492.0	487.2	484.3
25°	524.9	501.7	475.6	471.7	469.8
27.5°	507.5	482.3	458.2	456.2	455.3
30°	487.2	463.0	439.8	440.8	440.8
32.5°	466.9	442.7	424.3	426.3	426.3
35°	444.6	421.4	406.0	409.8	410.8
37.5°	421.4	401.1	388.6	394.4	397.3
40°	398.2	379.9	370.2	378.9	381.8
42.5°	375.0	357.6	353.8	364.4	368.3
45°	348.9	335.4	335.4	348.9	354.7
47.5°	323.8	315.1	318.0	335.4	344.1
50°	299.6	292.9	300.6	322.8	332.5
52.5°	273.5	271.6	284.2	311.2	322.8
55°	251.3	250.4	268.7	300.6	312.2
57.5°	227.2	230.1	255.2	290.0	302.5
60°	204.0	209.8	242.6	279.3	290.9
62.5°	180.8	192.4	231.0	268.7	282.2
65°	159.5	173.0	219.4	258.1	271.6
67.5°	138.2	155.6	207.8	248.4	262.0
70°	117.0	140.2	197.2	237.8	251.3
72.5°	95.7	126.6	186.6	227.2	241.7
75°	77.3	113.1	175.9	216.5	231.0
77.5°	59.9	102.5	165.3	207.8	220.4
80°	43.5	90.9	155.6	197.2	210.7
82.5°	28.0	81.2	145.0	186.6	201.1
85°	16.4	70.6	134.4	176.9	190.4
87.5°	6.8	59.9	124.7	166.3	179.8
90°	0.0	51.2	114.1	155.6	169.2
92.5°	0.0	42.5	104.4	146.0	159.5
95°	0.0	32.9	93.8	135.3	148.9
97.5°	0.0	25.1	83.1	124.7	138.2
100°	0.0	19.3	72.5	112.1	126.6
102.5°	0.0	13.5	61.9	100.5	115.0
105°	0.0	7.7	53.2	89.9	102.5
107.5°	0.0	3.9	44.5	79.3	91.8
110°	0.0	1.0	35.8	68.6	80.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	28.0	59.0	70.6
115°	0.0	0.0	21.3	49.3	59.9
117.5°	0.0	0.0	14.5	40.6	50.3
120°	0.0	0.0	8.7	31.9	40.6
122.5°	0.0	0.0	3.9	24.2	31.9
125°	0.0	0.0	1.0	16.4	24.2
127.5°	0.0	0.0	0.0	9.7	16.4
130°	0.0	0.0	0.0	4.8	9.7
132.5°	0.0	0.0	0.0	1.0	3.9
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°	1.0	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)