

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-40-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-40-L830-CD1-U  
Description: 4000 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: 3840.5 lumens  
Efficiency: N/A  
Efficacy: 138.6 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

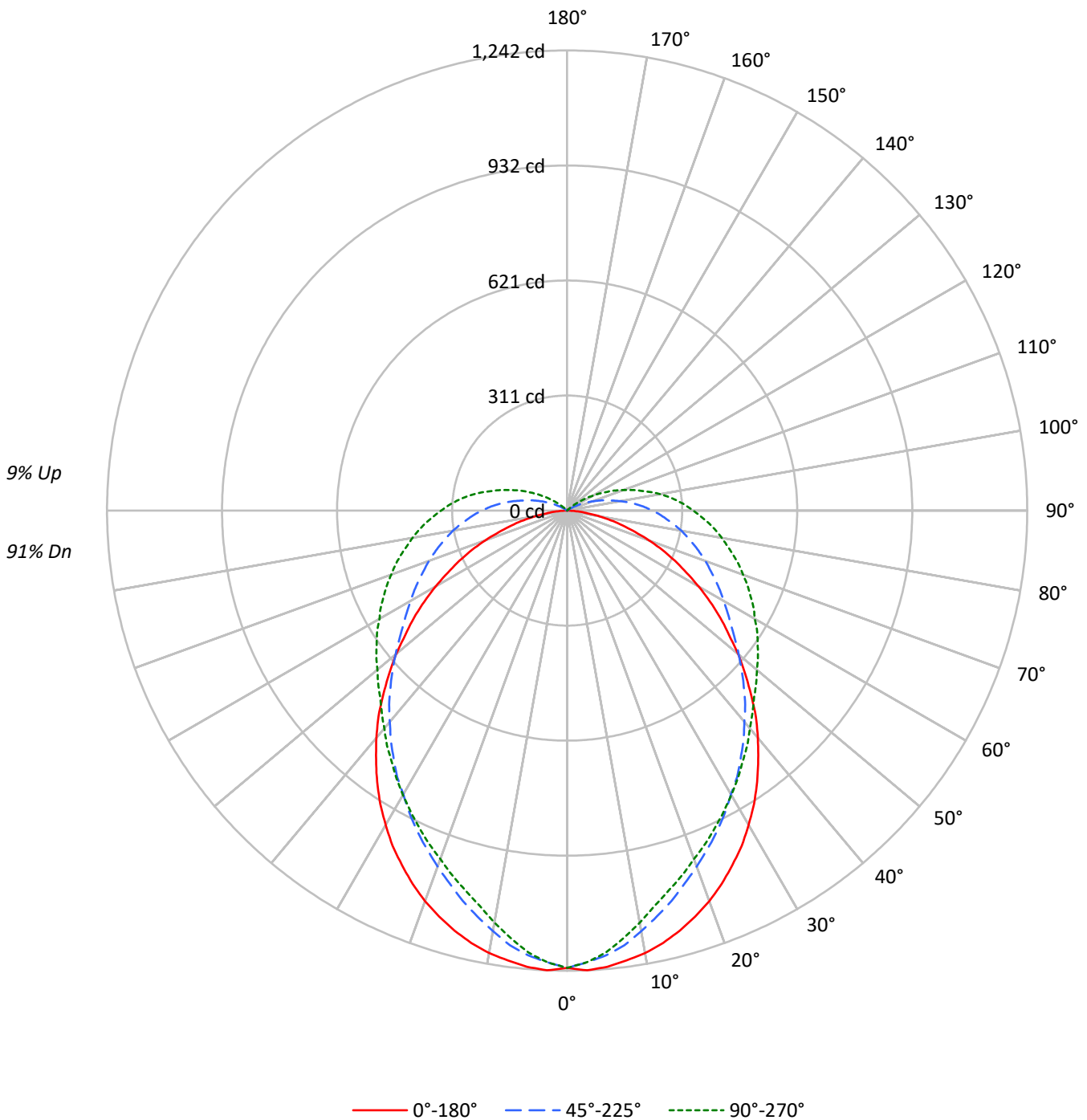
Input Watts (W): 27.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	93	93	93	91	
1	104	98	93	89	100	95	90	86	89	85	82	84	80	78	78	76	74	78	76	74	71	
2	94	85	77	71	90	82	75	69	77	71	66	72	67	63	68	64	60	68	64	60	58	
3	85	74	65	58	82	72	64	57	67	60	55	63	58	53	60	55	51	60	55	51	48	
4	78	65	56	49	75	63	55	48	60	52	47	56	50	45	53	48	43	53	48	43	41	
5	72	58	49	42	69	57	48	41	53	46	40	50	44	39	48	42	38	48	42	38	35	
6	66	53	43	37	64	51	42	36	48	41	35	46	39	34	43	38	33	43	38	33	31	
7	61	48	39	32	59	46	38	32	44	37	31	42	35	30	40	34	29	40	34	29	27	
8	57	44	35	29	55	42	34	29	40	33	28	38	32	27	36	31	26	36	31	26	24	
9	54	40	32	26	52	39	31	26	37	30	25	35	29	24	34	28	24	34	28	24	22	
10	50	37	29	24	48	36	28	23	34	28	23	33	27	22	31	26	22	31	26	22	20	

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

	0°	45°	90°
0°	79702	79702	79702
5°	79845	62494	57494
10°	78948	50255	43425
15°	77622	41285	34244
20°	75920	34438	28010
25°	73767	29211	23490
30°	71329	24885	19970
35°	68486	21445	17134
40°	65224	18469	14857
45°	61517	15966	13030
50°	57671	13783	11648
55°	53700	11972	10529
60°	49405	10589	9531
65°	44988	9458	8713
70°	39850	8458	7958
75°	33580	7566	7277
80°	26323	6763	6653
85°	16564	5945	6073



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.3	3.0
10°-20°	311.4	8.1
20°-30°	450.6	11.7
30°-40°	524.1	13.6
40°-50°	533.5	13.9
50°-60°	496.4	12.9
60°-70°	432.2	11.3
70°-80°	351.9	9.2
80°-90°	266.5	6.9
90°-100°	184.8	4.8
100°-110°	108.6	2.8
110°-120°	50.9	1.3
120°-130°	14.5	0.4
130°-140°	0.8	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°	876.2	22.8
0°-40°	1400.3	36.5
0°-60°	2430.2	63.3
0°-90°	3480.8	90.6
90°-120°	344.4	9.0
90°-150°	359.7	9.4
90°-180°	360.0	9.4
0°-180°	3840.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1234	1234	1234	1234	1234	
5°	1236	1226	1205	1205	1197	117
15°	1174	1143	1090	1071	1061	331
25°	1055	1009	956	948	944	486
35°	894	847	816	824	826	558
45°	702	674	674	702	713	542
55°	505	503	540	604	628	451
65°	321	348	441	519	546	318
75°	156	227	354	435	464	166
85°	33	142	270	356	383	38
90°	0	103	229	313	340	2
95°	0	66	188	272	299	0
105°	0	16	107	181	206	0
115°	0	0	43	99	120	0
125°	0	0	2	33	49	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°	2	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°	1234.1	1234.1	1234.1	1234.1	1234.1
2.5°	1241.9	1236.1	1220.5	1226.3	1220.5
5°	1236.1	1226.3	1205.0	1205.0	1197.2
7.5°	1224.4	1212.7	1183.6	1173.9	1164.1
10°	1212.7	1195.2	1152.5	1140.8	1129.2
12.5°	1195.2	1170.0	1121.4	1103.9	1092.2
15°	1173.9	1142.8	1090.3	1070.9	1061.1
17.5°	1148.6	1113.6	1055.3	1039.8	1032.0
20°	1121.4	1080.6	1022.3	1008.7	1000.9
22.5°	1090.3	1043.7	989.2	979.5	973.7
25°	1055.3	1008.7	956.2	948.4	944.5
27.5°	1020.3	969.8	921.2	917.3	915.4
30°	979.5	930.9	884.3	886.2	886.2
32.5°	938.7	890.1	853.2	857.1	857.1
35°	894.0	847.4	816.3	824.0	826.0
37.5°	847.4	806.5	781.3	792.9	798.8
40°	800.7	763.8	744.4	761.8	767.7
42.5°	754.1	719.1	711.3	732.7	740.5
45°	701.6	674.4	674.4	701.6	713.3
47.5°	651.1	633.6	639.4	674.4	691.9
50°	602.5	588.9	604.4	649.1	668.6
52.5°	550.0	546.1	571.4	625.8	649.1
55°	505.3	503.4	540.3	604.4	627.7
57.5°	456.7	462.5	513.1	583.0	608.3
60°	410.1	421.7	487.8	561.7	585.0
62.5°	363.4	386.8	464.5	540.3	567.5
65°	320.7	347.9	441.2	518.9	546.1
67.5°	277.9	312.9	417.8	499.5	526.7
70°	235.2	281.8	396.5	478.1	505.3
72.5°	192.4	254.6	375.1	456.7	485.9
75°	155.5	227.4	353.7	435.3	464.5
77.5°	120.5	206.0	332.3	417.8	443.1
80°	87.5	182.7	312.9	396.5	423.7
82.5°	56.4	163.3	291.5	375.1	404.2
85°	33.0	141.9	270.1	355.7	382.9
87.5°	13.6	120.5	250.7	334.3	361.5
90°	0.0	103.0	229.3	312.9	340.1
92.5°	0.0	85.5	209.9	293.5	320.7
95°	0.0	66.1	188.5	272.1	299.3
97.5°	0.0	50.5	167.1	250.7	277.9
100°	0.0	38.9	145.8	225.4	254.6
102.5°	0.0	27.2	124.4	202.1	231.3
105°	0.0	15.5	106.9	180.7	206.0
107.5°	0.0	7.8	89.4	159.4	184.6
110°	0.0	1.9	71.9	138.0	161.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	56.4	118.6	141.9
115°	0.0	0.0	42.8	99.1	120.5
117.5°	0.0	0.0	29.2	81.6	101.1
120°	0.0	0.0	17.5	64.1	81.6
122.5°	0.0	0.0	7.8	48.6	64.1
125°	0.0	0.0	1.9	33.0	48.6
127.5°	0.0	0.0	0.0	19.4	33.0
130°	0.0	0.0	0.0	9.7	19.4
132.5°	0.0	0.0	0.0	1.9	7.8
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°	1.9	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)