

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: P289773

Luminaire Tested: **8SSRK-TS-40-L935-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P289773  
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: 8SSRK-TS-40-L935-CD1-U  
Description: 4000 LUMEN, 8 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: 3105.0 lumens  
Efficiency: N/A  
Efficacy: 114.9 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.4  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')  
CIE Type: Semi-Direct

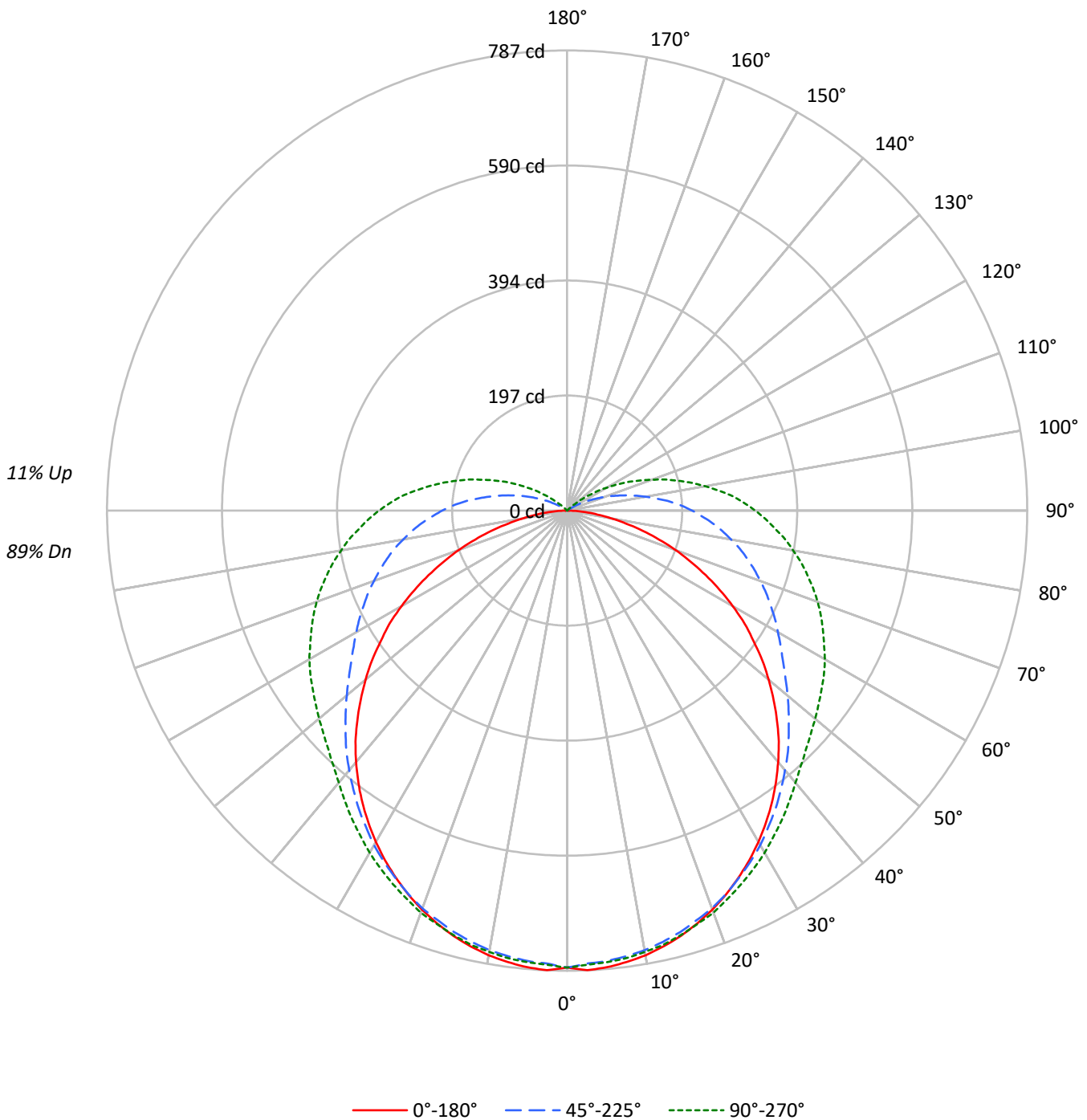
Input Watts (W): 27.0151  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	25236	25236	25236
5°	25367	20076	18621
10°	25227	16671	14738
15°	25027	14161	12126
20°	24760	12227	10238
25°	24447	10632	8766
30°	24107	9326	7613
35°	23720	8196	6664
40°	23258	7218	5879
45°	22703	6368	5275
50°	22059	5633	4823
55°	21273	5015	4457
60°	20389	4538	4147
65°	19126	4133	3852
70°	17628	3765	3591
75°	15536	3428	3331
80°	12872	3095	3081
85°	9456	2766	2832



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.9	2.4
10°-20°	211.8	6.8
20°-30°	321.7	10.4
30°-40°	391.0	12.6
40°-50°	417.3	13.4
50°-60°	409.3	13.2
60°-70°	373.9	12.0
70°-80°	317.3	10.2
80°-90°	247.0	8.0
90°-100°	174.1	5.6
100°-110°	103.5	3.3
110°-120°	49.0	1.6
120°-130°	14.2	0.5
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°	607.5	19.6
0°-40°	998.5	32.2
0°-60°	1825.1	58.8
0°-90°	2763.4	89.0
90°-120°	326.6	10.5
90°-150°	341.6	11.0
90°-180°	342.0	11.0
0°-180°	3105.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	782	782	782	782	782	
5°	784	781	773	778	776	74
15°	753	751	746	753	752	212
25°	693	693	694	705	705	319
35°	610	614	622	637	642	382
45°	508	516	536	564	578	391
55°	389	406	451	510	531	348
65°	262	295	384	457	483	259
75°	134	204	319	398	425	142
85°	32	130	250	330	357	35
90°	2	96	214	294	322	3
95°	2	64	176	255	284	2
105°	2	17	100	171	197	2
115°	2	2	41	94	116	2
125°	1	1	2	31	46	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°	781.5	781.5	781.5	781.5	781.5
2.5°	786.8	784.0	775.5	779.9	777.5
5°	784.0	781.1	773.4	777.9	775.5
7.5°	778.7	776.7	769.0	773.8	772.2
10°	772.2	770.2	763.3	769.0	766.5
12.5°	763.3	761.3	755.6	761.3	760.5
15°	752.8	751.1	746.3	752.8	751.5
17.5°	740.2	739.0	734.9	743.0	741.4
20°	726.0	725.2	724.0	731.3	731.7
22.5°	710.6	710.6	709.8	717.9	718.3
25°	692.8	693.2	694.0	704.9	704.9
27.5°	674.5	675.7	677.8	688.3	690.7
30°	654.3	656.3	660.7	672.1	675.7
32.5°	632.8	636.0	640.9	655.1	658.7
35°	610.5	613.7	621.8	637.2	642.5
37.5°	586.6	590.2	600.7	618.2	625.1
40°	561.4	565.5	579.7	601.6	607.6
42.5°	535.9	541.6	559.0	582.5	591.8
45°	507.5	516.0	535.9	564.3	577.6
47.5°	479.1	489.3	514.0	548.9	565.1
50°	450.0	461.3	492.1	535.1	553.7
52.5°	420.8	433.3	470.6	522.1	542.4
55°	389.1	405.8	450.8	509.5	531.4
57.5°	360.0	377.8	432.9	497.0	520.9
60°	327.1	349.8	416.3	484.0	509.1
62.5°	294.7	321.9	400.5	470.6	495.4
65°	261.5	295.1	383.9	457.2	482.8
67.5°	228.6	267.9	368.5	443.5	469.8
70°	197.4	244.4	351.4	429.3	456.0
72.5°	164.6	223.8	335.6	414.3	441.0
75°	134.2	203.5	319.0	398.1	425.2
77.5°	103.4	184.4	302.8	381.8	409.8
80°	77.4	166.6	285.0	364.8	392.4
82.5°	52.7	148.8	267.5	347.4	376.2
85°	31.6	129.7	250.1	329.6	357.1
87.5°	14.2	113.1	231.1	311.3	340.1
90°	2.4	96.1	213.6	293.9	321.5
92.5°	2.8	80.7	195.8	275.2	302.8
95°	2.4	64.5	176.3	254.6	284.2
97.5°	2.4	50.7	155.7	234.3	261.5
100°	2.0	37.7	135.8	212.8	239.6
102.5°	2.0	26.8	118.0	191.7	218.5
105°	2.0	17.4	100.5	170.7	196.6
107.5°	2.0	9.7	83.5	150.4	176.7
110°	2.0	3.6	68.1	132.1	154.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.6	1.6	53.1	111.9	134.6
115°	1.6	1.6	40.9	93.6	115.9
117.5°	1.6	1.2	28.0	76.6	96.9
120°	1.6	1.2	17.4	61.2	78.6
122.5°	1.2	0.8	8.5	45.4	62.8
125°	1.2	0.8	2.0	31.2	45.8
127.5°	1.2	0.4	0.0	18.6	31.6
130°	0.8	0.4	0.0	8.9	18.6
132.5°	0.8	0.4	0.0	1.6	8.1
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)