

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: P289747

Luminaire Tested: **4SSRK-TS-30-L850-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P289747  
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-30-L850-CD1-U  
Description: 3000 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: 2845.7 lumens  
Efficiency: N/A  
Efficacy: 139.5 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

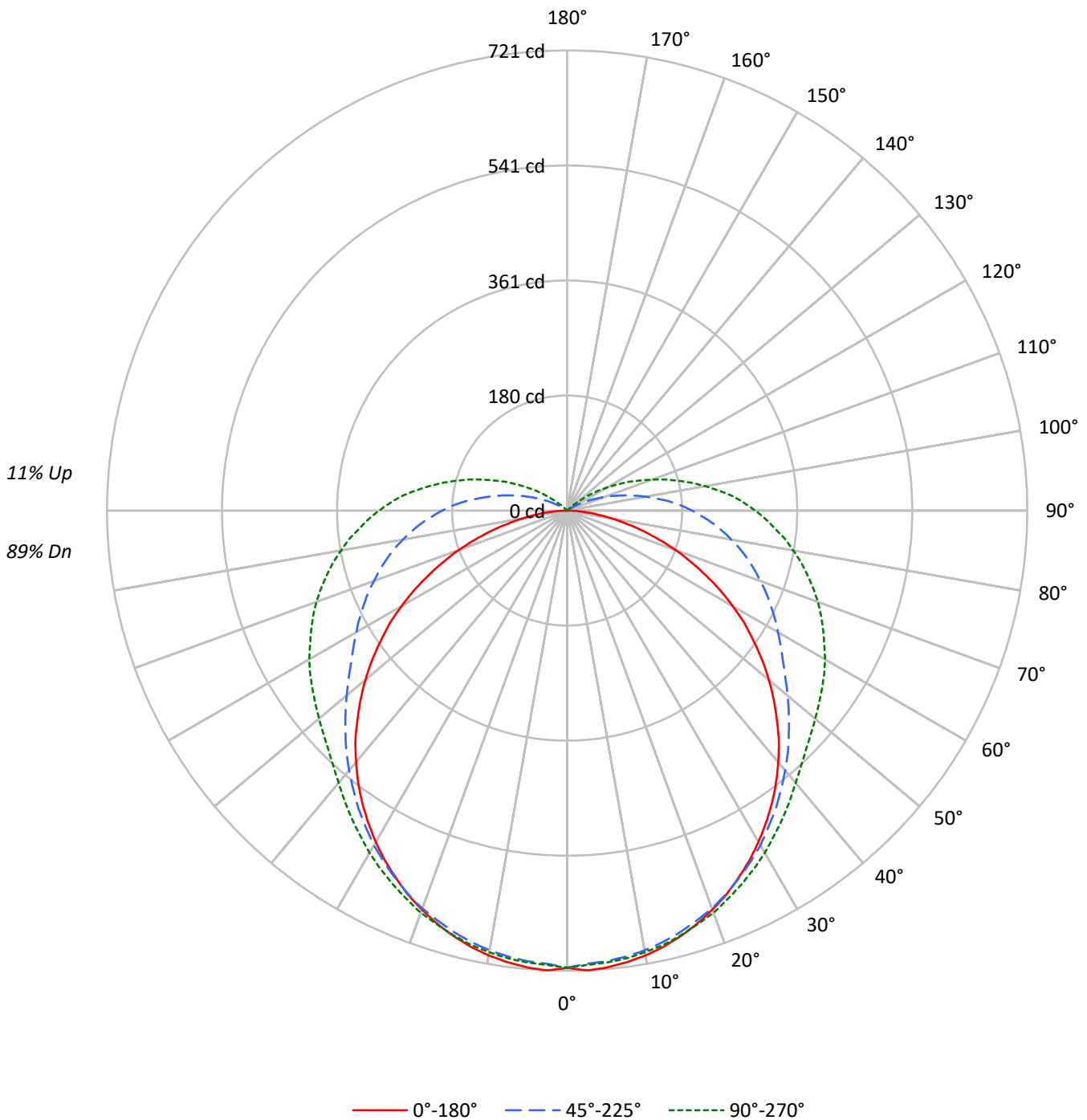
Input Watts (W): 20.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	46261	46261	46261
5°	46411	36760	34130
10°	46072	30506	27015
15°	45618	25900	22229
20°	45048	22351	18767
25°	44380	19429	16069
30°	43664	17042	13955
35°	42861	14972	12214
40°	41911	13182	10777
45°	40780	11627	9671
50°	39475	10285	8842
55°	37908	9154	8171
60°	36117	8282	7602
65°	33611	7541	7060
70°	30650	6871	6583
75°	26562	6254	6105
80°	21359	5645	5647
85°	14557	5045	5191



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.8	2.4
10°-20°	194.2	6.8
20°-30°	294.8	10.4
30°-40°	358.4	12.6
40°-50°	382.5	13.4
50°-60°	375.1	13.2
60°-70°	342.7	12.0
70°-80°	290.8	10.2
80°-90°	226.3	8.0
90°-100°	159.6	5.6
100°-110°	94.9	3.3
110°-120°	44.9	1.6
120°-130°	13.0	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°	556.8	19.6
0°-40°	915.1	32.2
0°-60°	1672.7	58.8
0°-90°	2532.6	89.0
90°-120°	299.3	10.5
90°-150°	313.1	11.0
90°-180°	313.0	11.0
0°-180°	2845.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	716	716	716	716	716	
5°	718	716	709	713	711	68
15°	690	688	684	690	689	195
25°	635	635	636	646	646	293
35°	560	562	570	584	589	350
45°	465	473	491	517	529	359
55°	357	372	413	467	487	319
65°	240	270	352	419	442	237
75°	123	186	292	365	390	130
85°	29	119	229	302	327	32
90°	2	88	196	269	295	3
95°	2	59	162	233	260	2
105°	2	16	92	156	180	2
115°	2	2	38	86	106	2
125°	1	1	2	29	42	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°	716.3	716.3	716.3	716.3	716.3
2.5°	721.1	718.5	710.7	714.8	712.6
5°	718.5	715.9	708.8	712.9	710.7
7.5°	713.7	711.8	704.8	709.2	707.7
10°	707.7	705.9	699.6	704.8	702.5
12.5°	699.6	697.7	692.5	697.7	697.0
15°	689.9	688.4	684.0	689.9	688.8
17.5°	678.4	677.3	673.6	681.0	679.5
20°	665.4	664.6	663.5	670.2	670.6
22.5°	651.3	651.3	650.5	657.9	658.3
25°	634.9	635.3	636.0	646.1	646.1
27.5°	618.2	619.3	621.2	630.8	633.1
30°	599.6	601.5	605.6	616.0	619.3
32.5°	579.9	582.9	587.4	600.4	603.7
35°	559.5	562.5	569.9	584.0	588.8
37.5°	537.6	540.9	550.6	566.6	572.9
40°	514.5	518.3	531.3	551.3	556.9
42.5°	491.1	496.3	512.3	533.9	542.4
45°	465.1	472.9	491.1	517.1	529.4
47.5°	439.1	448.4	471.1	503.0	517.9
50°	412.4	422.8	451.0	490.4	507.5
52.5°	385.6	397.1	431.3	478.5	497.1
55°	356.7	371.9	413.1	467.0	487.1
57.5°	329.9	346.3	396.8	455.5	477.4
60°	299.8	320.6	381.5	443.6	466.6
62.5°	270.1	295.0	367.1	431.3	454.0
65°	239.6	270.5	351.8	419.1	442.5
67.5°	209.5	245.6	337.7	406.4	430.6
70°	180.9	224.0	322.1	393.4	418.0
72.5°	150.8	205.1	307.6	379.7	404.2
75°	123.0	186.5	292.4	364.8	389.7
77.5°	94.7	169.0	277.5	350.0	375.6
80°	71.0	152.7	261.2	334.4	359.6
82.5°	48.3	136.3	245.2	318.4	344.8
85°	29.0	118.9	229.2	302.0	327.3
87.5°	13.0	103.7	211.8	285.3	311.7
90°	2.2	88.0	195.8	269.3	294.6
92.5°	2.6	73.9	179.4	252.3	277.5
95°	2.2	59.1	161.6	233.3	260.4
97.5°	2.2	46.4	142.7	214.7	239.6
100°	1.9	34.6	124.5	195.0	219.6
102.5°	1.9	24.5	108.1	175.7	200.2
105°	1.9	16.0	92.1	156.4	180.2
107.5°	1.9	8.9	76.5	137.8	162.0
110°	1.9	3.3	62.4	121.1	141.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.5	1.5	48.7	102.5	123.3
115°	1.5	1.5	37.5	85.8	106.3
117.5°	1.5	1.1	25.6	70.2	88.8
120°	1.5	1.1	16.0	56.1	72.1
122.5°	1.1	0.7	7.8	41.6	57.6
125°	1.1	0.7	1.9	28.6	42.0
127.5°	1.1	0.4	0.0	17.1	29.0
130°	0.7	0.4	0.0	8.2	17.1
132.5°	0.7	0.4	0.0	1.5	7.4
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)