

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: P289776

Luminaire Tested: **8SSRK-TS-40-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289776
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-L830-CD1-U
Description: 4000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH TRILOBE SMOOTH LENS AND 80 CRI 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3633.7 lumens
Efficiency: N/A
Efficacy: 134.5 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

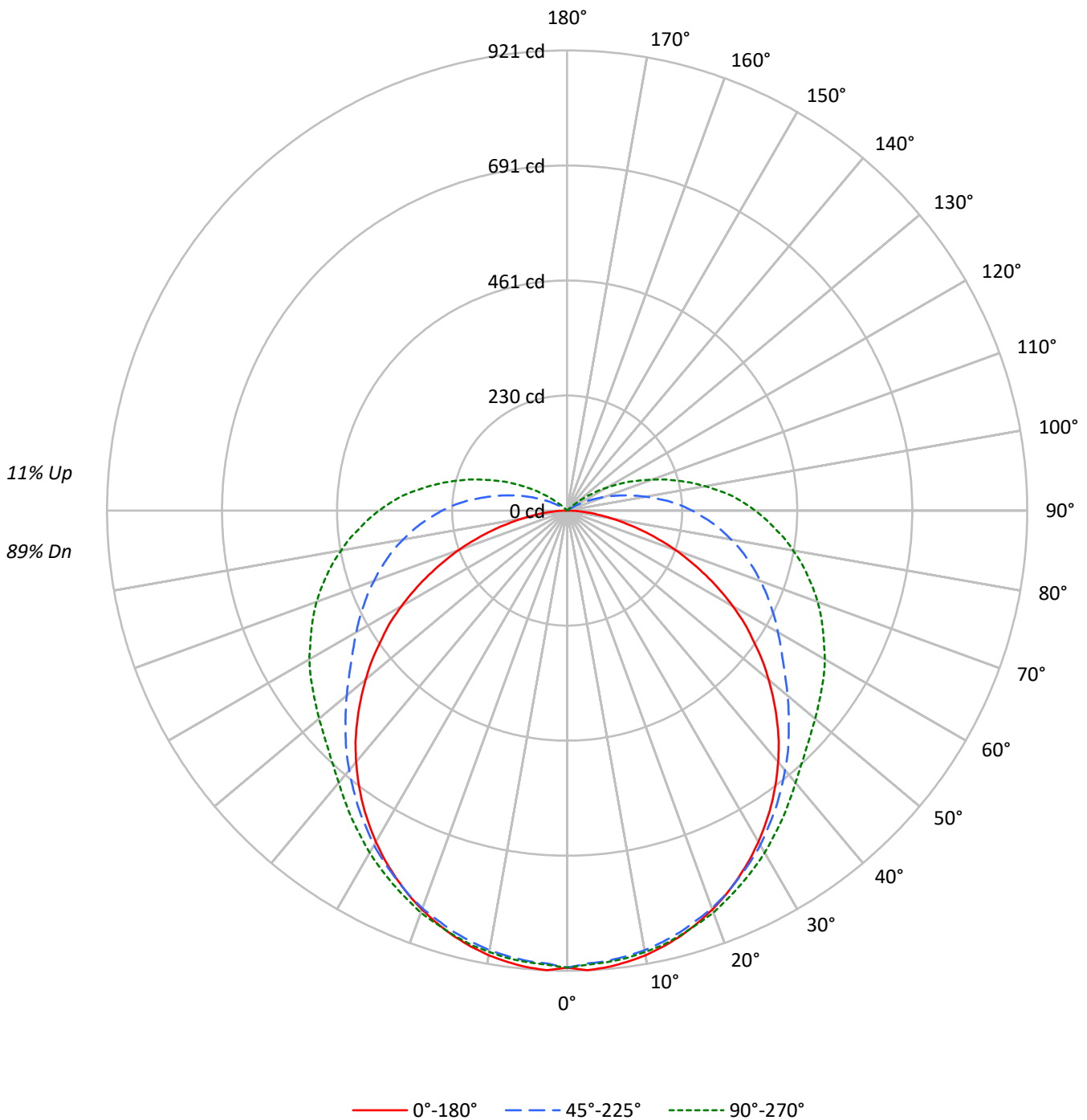
Input Watts (W): 27.0151
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	29534	29534	29534
5°	29687	23495	21791
10°	29524	19510	17249
15°	29286	16573	14192
20°	28976	14309	11982
25°	28607	12442	10259
30°	28211	10916	8910
35°	27757	9592	7798
40°	27219	8446	6881
45°	26568	7452	6174
50°	25814	6593	5645
55°	24898	5869	5216
60°	23861	5311	4853
65°	22381	4836	4507
70°	20629	4407	4203
75°	18175	4011	3898
80°	15068	3622	3605
85°	11072	3237	3314



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.5	2.4
10°-20°	247.9	6.8
20°-30°	376.5	10.4
30°-40°	457.6	12.6
40°-50°	488.4	13.4
50°-60°	479.0	13.2
60°-70°	437.6	12.0
70°-80°	371.4	10.2
80°-90°	289.0	8.0
90°-100°	203.8	5.6
100°-110°	121.1	3.3
110°-120°	57.3	1.6
120°-130°	16.6	0.5
130°-140°	1.0	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°	710.9	19.6
0°-40°	1168.5	32.2
0°-60°	2135.9	58.8
0°-90°	3233.9	89.0
90°-120°	382.2	10.5
90°-150°	399.8	11.0
90°-180°	400.0	11.0
0°-180°	3633.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	915	915	915	915	915	
5°	918	914	905	910	908	87
15°	881	879	873	881	880	248
25°	811	811	812	825	825	374
35°	714	718	728	746	752	447
45°	594	604	627	660	676	458
55°	455	475	528	596	622	408
65°	306	345	449	535	565	303
75°	157	238	373	466	498	166
85°	37	152	293	386	418	41
90°	3	112	250	344	376	3
95°	3	75	206	298	332	2
105°	2	20	118	200	230	3
115°	2	2	48	110	136	2
125°	1	1	2	36	54	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°	914.6	914.6	914.6	914.6	914.6
2.5°	920.8	917.5	907.5	912.7	909.9
5°	917.5	914.1	905.1	910.4	907.5
7.5°	911.3	908.9	899.9	905.6	903.7
10°	903.7	901.3	893.3	899.9	897.1
12.5°	893.3	890.9	884.3	890.9	890.0
15°	880.9	879.0	873.4	880.9	879.5
17.5°	866.2	864.8	860.1	869.6	867.7
20°	849.6	848.7	847.3	855.8	856.3
22.5°	831.6	831.6	830.7	840.1	840.6
25°	810.7	811.2	812.2	825.0	825.0
27.5°	789.4	790.8	793.2	805.5	808.4
30°	765.7	768.0	773.3	786.5	790.8
32.5°	740.5	744.3	750.0	766.6	770.9
35°	714.4	718.2	727.7	745.7	751.9
37.5°	686.4	690.7	703.0	723.4	731.5
40°	657.0	661.8	678.4	704.0	711.1
42.5°	627.1	633.8	654.2	681.7	692.6
45°	593.9	603.9	627.1	660.3	676.0
47.5°	560.7	572.6	601.5	642.3	661.3
50°	526.6	539.9	575.9	626.2	648.0
52.5°	492.4	507.1	550.8	611.0	634.7
55°	455.4	474.9	527.5	596.3	621.9
57.5°	421.3	442.1	506.6	581.6	609.6
60°	382.8	409.4	487.2	566.4	595.8
62.5°	344.9	376.7	468.7	550.8	579.7
65°	306.0	345.4	449.2	535.1	565.0
67.5°	267.6	313.6	431.2	519.0	549.8
70°	231.0	286.1	411.3	502.4	533.7
72.5°	192.6	261.9	392.8	484.8	516.1
75°	157.0	238.1	373.3	465.8	497.6
77.5°	121.0	215.8	354.4	446.9	479.6
80°	90.6	195.0	333.5	427.0	459.2
82.5°	61.7	174.1	313.1	406.6	440.2
85°	37.0	151.8	292.7	385.7	417.9
87.5°	16.6	132.4	270.4	364.3	398.0
90°	2.8	112.4	250.0	343.9	376.2
92.5°	3.3	94.4	229.1	322.1	354.4
95°	2.8	75.4	206.4	297.9	332.5
97.5°	2.8	59.3	182.2	274.2	306.0
100°	2.4	44.1	158.9	249.1	280.4
102.5°	2.4	31.3	138.0	224.4	255.7
105°	2.4	20.4	117.6	199.7	230.1
107.5°	2.4	11.4	97.7	176.0	206.8
110°	2.4	4.3	79.7	154.7	180.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.9	1.9	62.1	130.9	157.5
115°	1.9	1.9	47.9	109.6	135.7
117.5°	1.9	1.4	32.7	89.7	113.4
120°	1.9	1.4	20.4	71.6	92.0
122.5°	1.4	0.9	10.0	53.1	73.5
125°	1.4	0.9	2.4	36.5	53.6
127.5°	1.4	0.5	0.0	21.8	37.0
130°	0.9	0.5	0.0	10.4	21.8
132.5°	0.9	0.5	0.0	1.9	9.5
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)