

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: P289952

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289952
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-7)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SSRK-LW-40-L830-CD1-U
Description: 4000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH ROUND FROSTED LENS AND 80 CRI 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3588.7 lumens
Efficiency: N/A
Efficacy: 132.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')
CIE Type: Semi-Direct

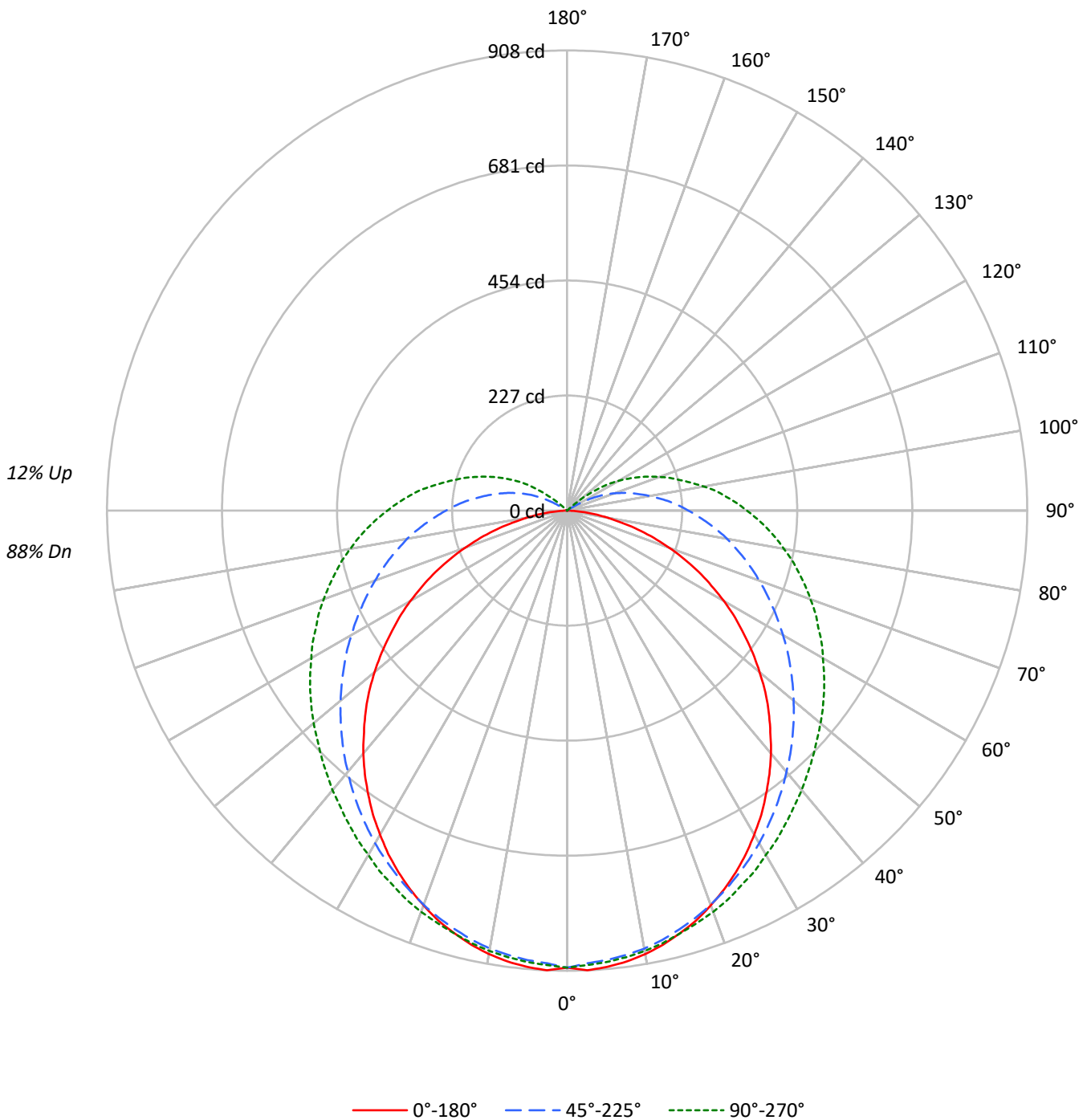
Input Watts (W): 27.0151
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		91	91	91	88
1	103	97	92	87	99	94	89	84	87	83	79		81	78	75		75	73	71	67
2	93	83	75	68	89	80	73	67	74	68	63		69	64	60		65	61	57	54
3	84	72	63	56	80	70	61	54	65	58	52		60	54	50		56	51	47	44
4	76	63	54	47	73	61	52	46	57	50	44		53	47	42		50	44	40	37
5	70	56	47	40	67	54	46	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		40	35	30	28
7	60	46	36	30	57	44	36	30	42	34	28		39	32	27		37	31	26	24
8	55	41	33	27	53	40	32	26	38	31	25		36	29	24		34	28	24	21
9	52	38	30	24	50	37	29	23	35	28	23		33	27	22		31	25	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°	29120	29120	29120
5°	29240	23113	21471
10°	29027	19167	16967
15°	28687	16229	13932
20°	28266	13980	11789
25°	27788	12173	10135
30°	27198	10701	8840
35°	26580	9448	7809
40°	25922	8382	6968
45°	25168	7474	6266
50°	24299	6680	5687
55°	23290	5980	5192
60°	22266	5362	4749
65°	20955	4811	4364
70°	19146	4320	4023
75°	16751	3879	3705
80°	13338	3483	3408
85°	8648	3080	3137



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.2	2.4
10°-20°	243.1	6.8
20°-30°	368.6	10.3
30°-40°	449.9	12.5
40°-50°	484.5	13.5
50°-60°	475.9	13.3
60°-70°	430.0	12.0
70°-80°	358.0	10.0
80°-90°	274.6	7.7
90°-100°	198.8	5.5
100°-110°	128.4	3.6
110°-120°	69.2	1.9
120°-130°	21.9	0.6
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°	696.8	19.4
0°-40°	1146.7	32.0
0°-60°	2107.1	58.7
0°-90°	3169.6	88.3
90°-120°	396.4	11.0
90°-150°	419.1	11.7
90°-180°	419.0	11.7
0°-180°	3588.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	902	902	902	902	902	
5°	904	900	890	897	894	86
15°	863	861	855	865	863	243
25°	788	788	795	812	815	363
35°	684	693	717	745	753	428
45°	563	584	629	670	686	434
55°	426	468	538	597	619	382
65°	286	349	447	522	547	283
75°	145	240	361	444	473	153
85°	29	147	278	365	396	35
90°	1	110	239	325	354	2
95°	2	80	203	287	315	1
105°	2	28	132	206	232	2
115°	1	1	66	131	156	1
125°	1	0	0	53	75	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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CATALOG NUMBER: 8SSRK-LW-40-L830-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	901.8	901.8	901.8	901.8	901.8
2.5°	908.0	904.2	894.2	900.4	897.6
5°	903.7	900.4	890.4	897.1	894.2
7.5°	897.6	894.2	884.7	891.4	889.0
10°	888.5	885.2	877.6	884.3	882.4
12.5°	877.2	874.8	867.7	875.7	873.8
15°	862.9	861.0	855.3	864.8	863.4
17.5°	847.7	845.8	842.5	852.5	853.0
20°	828.8	828.3	827.8	840.6	842.5
22.5°	809.3	809.8	811.7	827.3	830.2
25°	787.5	788.4	794.6	811.7	815.0
27.5°	764.2	767.6	776.6	796.5	801.7
30°	738.2	743.8	758.1	779.0	784.6
32.5°	712.5	718.7	737.7	762.4	769.9
35°	684.1	693.1	716.8	745.3	752.9
37.5°	655.6	666.0	695.5	726.3	735.8
40°	625.7	639.5	673.2	707.8	720.1
42.5°	593.5	612.9	651.8	688.8	702.6
45°	562.6	584.0	629.0	670.3	686.0
47.5°	530.8	556.5	606.3	652.3	668.9
50°	495.7	526.6	583.5	634.3	652.8
52.5°	461.6	498.1	560.7	615.8	636.2
55°	426.0	468.2	537.5	597.3	619.1
57.5°	392.8	437.9	515.2	577.8	601.1
60°	357.2	408.5	491.9	559.8	583.0
62.5°	321.2	379.0	469.2	540.3	566.4
65°	286.5	348.7	446.9	521.8	547.0
67.5°	249.5	321.2	425.1	501.9	530.4
70°	214.4	292.7	403.2	482.9	510.9
72.5°	179.3	265.2	381.9	464.0	492.4
75°	144.7	240.0	361.0	444.5	473.0
77.5°	110.1	213.5	339.7	425.1	454.9
80°	80.2	190.2	320.7	405.1	434.1
82.5°	54.6	168.4	299.3	386.2	415.6
85°	28.9	147.1	278.5	365.3	395.6
87.5°	8.5	128.1	258.1	344.9	375.2
90°	0.9	110.5	239.1	325.0	354.4
92.5°	1.4	95.4	221.1	306.9	335.4
95°	1.9	80.2	202.6	287.0	315.0
97.5°	1.9	66.9	183.6	266.6	296.5
100°	1.9	54.1	165.6	245.7	273.3
102.5°	1.9	42.2	148.5	224.9	251.9
105°	1.9	28.5	131.9	206.4	232.0
107.5°	1.9	14.2	115.8	188.3	213.5
110°	1.9	2.8	99.6	169.8	194.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.4	1.9	84.0	150.4	175.1
115°	1.4	1.4	66.4	131.4	156.1
117.5°	1.4	1.4	47.4	113.9	136.2
120°	1.4	0.9	27.5	95.4	117.6
122.5°	0.9	0.9	9.0	74.0	98.2
125°	0.9	0.5	0.5	52.7	75.0
127.5°	0.9	0.5	0.0	29.4	50.8
130°	0.9	0.5	0.0	8.5	28.9
132.5°	0.9	0.5	0.0	0.0	6.2
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)