

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: P290408

Luminaire Tested: **8SSRK-SLN-60-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290408
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-15)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SSRK-SLN-60-L830-CD1-U
Description: 6000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH SQUARE NARROW LENS AND 80 CRI 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6215.1 lumens
Efficiency: N/A
Efficacy: 150.2 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 0.98 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')
CIE Type: Direct

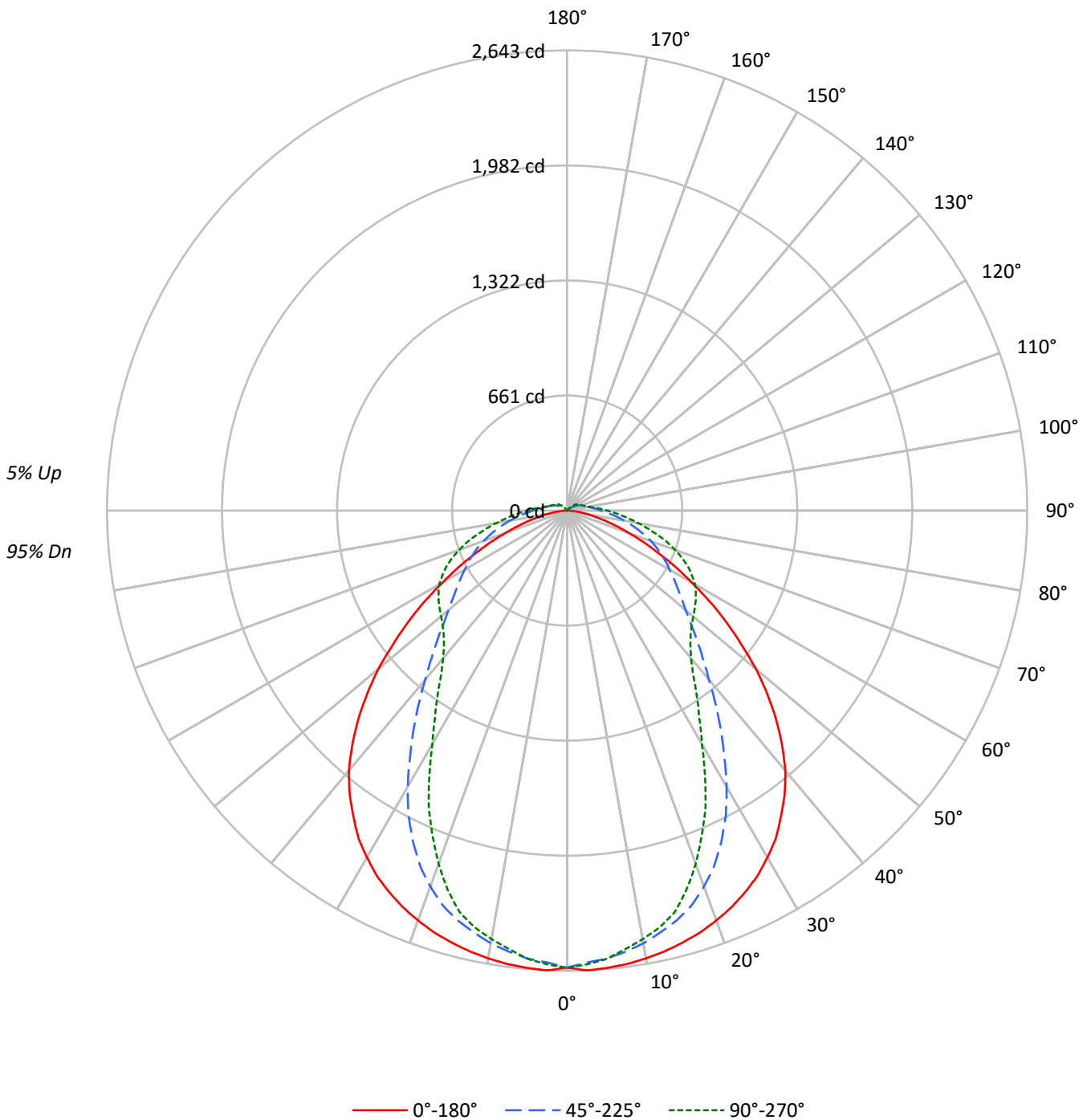
Input Watts (W): 41.3831
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	118	118	118	118	115	115	115	115	108	108	108	103	103	103	98	98	98	95
1	107	102	98	94	104	100	96	92	94	91	88	90	87	85	85	83	81	79
2	98	90	83	77	95	87	81	76	83	78	73	79	75	71	75	72	69	66
3	90	79	71	65	87	77	70	64	74	67	62	70	65	60	67	63	59	56
4	82	71	62	56	80	69	61	55	66	59	54	63	57	52	60	55	51	49
5	76	64	55	48	74	62	54	48	60	52	47	57	51	46	55	49	45	43
6	71	58	49	43	68	56	48	42	54	47	42	52	46	41	50	45	40	38
7	66	53	44	38	64	52	44	38	50	42	37	48	41	37	46	40	36	34
8	61	48	40	34	60	47	40	34	46	39	34	44	38	33	43	37	33	31
9	57	44	37	31	56	44	36	31	42	35	31	41	35	30	40	34	30	28
10	54	41	34	28	53	41	33	28	39	33	28	38	32	28	37	31	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	84768	84768	84768
5°	85309	67044	62068
10°	85317	55108	48060
15°	85363	46216	38525
20°	85441	38803	30211
25°	85334	32097	23384
30°	84737	25866	17450
35°	83221	20292	13457
40°	80766	15779	10707
45°	75969	12534	9162
50°	69412	10160	8238
55°	60888	8595	7564
60°	51469	7405	6908
65°	42275	6432	6124
70°	33855	5477	5196
75°	26012	4522	4196
80°	18743	3626	3242
85°	11820	2835	2466



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.5	4.0
10°-20°	691.0	11.1
20°-30°	971.7	15.6
30°-40°	1017.5	16.4
40°-50°	921.2	14.8
50°-60°	784.1	12.6
60°-70°	620.0	10.0
70°-80°	422.1	6.8
80°-90°	240.9	3.9
90°-100°	133.6	2.1
100°-110°	81.6	1.3
110°-120°	49.6	0.8
120°-130°	26.9	0.4
130°-140°	8.1	0.1
140°-150°	0.2	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1909.2	30.7
0°-40°	2926.7	47.1
0°-60°	4632.1	74.5
0°-90°	5915.1	95.2
90°-120°	264.8	4.3
90°-150°	300.0	4.8
90°-180°	300.0	4.8
0°-180°	6215.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2625	2625	2625	2625	2625	
5°	2637	2620	2583	2594	2585	251
15°	2568	2519	2436	2410	2388	725
25°	2418	2298	2095	1933	1880	1114
35°	2142	1901	1540	1347	1298	1338
45°	1698	1348	1055	1000	1003	1304
55°	1114	850	773	862	902	996
65°	578	502	597	730	768	582
75°	225	274	421	517	536	245
85°	40	130	256	307	311	47
90°	1	90	196	228	228	2
95°	1	70	154	171	170	1
105°	1	42	103	108	103	1
115°	1	6	70	81	79	1
125°	1	1	32	56	60	1
135°	1	1	1	23	30	1
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°	2625.1	2625.1	2625.1	2625.1	2625.1
2.5°	2643.1	2628.7	2598.6	2618.0	2609.3
5°	2636.6	2620.1	2582.8	2594.3	2584.9
7.5°	2626.6	2604.3	2556.2	2559.8	2541.8
10°	2611.5	2582.8	2523.2	2516.7	2499.5
12.5°	2592.1	2552.6	2480.8	2472.2	2452.1
15°	2567.7	2518.9	2435.6	2410.4	2387.5
17.5°	2540.4	2478.7	2377.4	2321.4	2281.9
20°	2505.2	2427.0	2297.7	2216.6	2159.1
22.5°	2465.7	2370.9	2208.0	2085.9	2020.5
25°	2418.3	2298.4	2095.2	1932.9	1880.5
27.5°	2365.9	2223.0	1972.4	1782.9	1713.2
30°	2299.9	2127.5	1832.4	1629.2	1548.8
32.5°	2230.9	2024.9	1680.2	1475.6	1413.1
35°	2141.9	1900.6	1539.5	1347.0	1297.5
37.5°	2052.1	1767.8	1399.4	1232.1	1188.3
40°	1949.5	1633.5	1267.3	1137.4	1106.5
42.5°	1827.4	1497.1	1155.3	1057.7	1046.9
45°	1698.2	1348.5	1054.8	999.5	1003.1
47.5°	1557.4	1213.5	963.6	952.8	970.8
50°	1416.0	1087.8	887.5	917.6	945.7
52.5°	1258.7	966.5	827.2	888.9	922.7
55°	1113.7	850.2	772.6	861.6	901.9
57.5°	969.3	751.1	725.2	833.6	876.0
60°	825.7	660.6	679.3	803.5	848.0
62.5°	700.8	574.4	639.1	769.7	808.5
65°	578.0	501.9	597.4	729.5	767.6
67.5°	476.1	437.3	555.8	681.4	715.9
70°	379.1	376.2	511.2	628.3	659.9
72.5°	295.8	321.0	464.6	573.0	603.1
75°	224.7	273.6	420.8	517.0	535.7
77.5°	164.4	229.1	376.2	460.3	473.2
80°	112.7	190.3	333.9	403.5	412.9
82.5°	71.1	157.2	293.0	352.6	359.0
85°	39.5	130.0	256.3	306.6	310.9
87.5°	15.1	107.0	223.3	266.4	270.0
90°	0.7	90.5	196.0	228.3	228.3
92.5°	0.7	79.0	173.8	198.2	199.6
95°	1.4	69.6	154.4	170.9	169.5
97.5°	1.4	63.2	136.4	150.1	145.8
100°	1.4	57.4	122.8	132.1	127.8
102.5°	1.4	51.0	112.0	117.8	112.7
105°	1.4	42.4	103.4	107.7	103.4
107.5°	1.4	33.7	94.1	99.8	95.5
110°	1.4	25.1	85.4	92.6	89.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.7	15.8	77.5	86.2	84.0
115°	1.4	5.7	69.6	81.1	79.0
117.5°	0.7	2.9	59.6	75.4	74.7
120°	0.7	2.2	50.3	70.4	70.4
122.5°	0.7	2.2	41.6	63.2	66.1
125°	0.7	1.4	31.6	56.0	59.6
127.5°	0.7	1.4	22.3	48.8	53.1
130°	0.7	1.4	11.5	40.2	46.0
132.5°	0.7	1.4	1.4	31.6	38.1
135°	1.4	1.4	1.4	23.0	30.2
137.5°	1.4	1.4	1.4	12.2	21.5
140°	1.4	1.4	0.7	0.7	10.1
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)