

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: P290378

Luminaire Tested: **4SSRK-SLN-60-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290378
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: 4SSRK-SLN-60-L840-CD1-U
Description: 6000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH SQUARE NARROW LENS AND 80 CRI 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6482.9 lumens
Efficiency: N/A
Efficacy: 144.7 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 0.98 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')
CIE Type: Direct

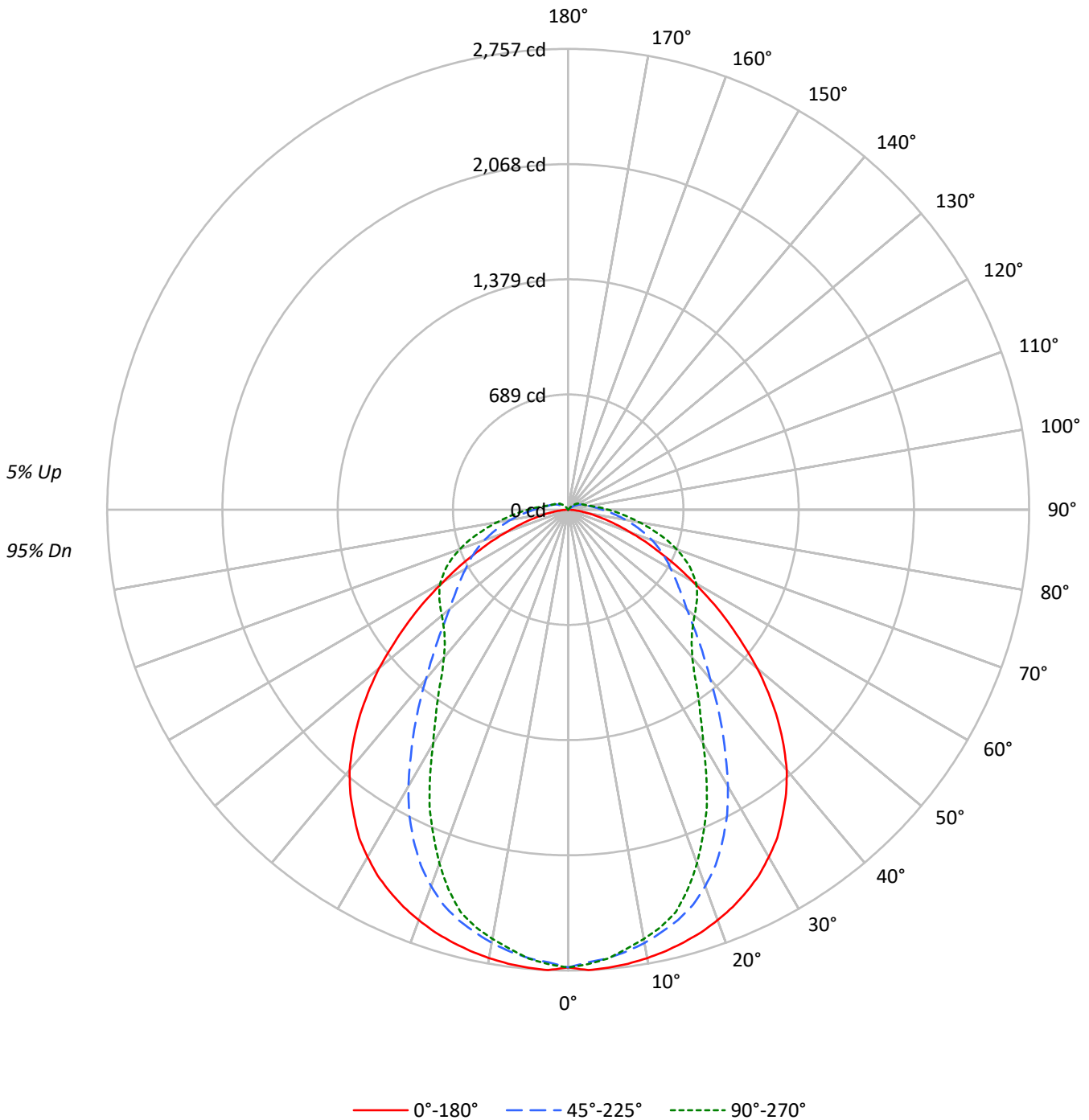
Input Watts (W): 44.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	176841	176841	176841
5°	177647	139723	129486
10°	177335	114765	100263
15°	177097	96197	80367
20°	176916	80738	63028
25°	176326	66764	48786
30°	174700	53789	36404
35°	171154	42186	28074
40°	165647	32797	22337
45°	155309	26047	19113
50°	141379	21110	17185
55°	123457	17857	15779
60°	103762	15381	14410
65°	84576	13357	12775
70°	67010	11376	10840
75°	50618	9388	8753
80°	35378	7528	6763
85°	20680	5886	5144



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.1	4.0
10°-20°	720.8	11.1
20°-30°	1013.6	15.6
30°-40°	1061.4	16.4
40°-50°	960.9	14.8
50°-60°	817.9	12.6
60°-70°	646.7	10.0
70°-80°	440.3	6.8
80°-90°	251.3	3.9
90°-100°	139.4	2.1
100°-110°	85.1	1.3
110°-120°	51.8	0.8
120°-130°	28.0	0.4
130°-140°	8.5	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°	1991.5	30.7
0°-40°	3052.8	47.1
0°-60°	4831.6	74.5
0°-90°	6169.9	95.2
90°-120°	276.2	4.3
90°-150°	312.9	4.8
90°-180°	313.0	4.8
0°-180°	6482.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2738	2738	2738	2738	2738	
5°	2750	2733	2694	2706	2696	262
15°	2678	2627	2540	2514	2490	757
25°	2522	2398	2186	2016	1962	1162
35°	2234	1982	1606	1405	1353	1396
45°	1771	1407	1100	1043	1046	1360
55°	1162	887	806	899	941	1039
65°	603	524	623	761	801	607
75°	234	285	439	539	559	256
85°	41	136	267	320	324	49
90°	1	94	204	238	238	2
95°	2	73	161	178	177	1
105°	2	44	108	112	108	2
115°	2	6	73	85	82	1
125°	1	2	33	58	62	1
135°	2	2	2	24	32	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°	2738.2	2738.2	2738.2	2738.2	2738.2
2.5°	2757.0	2742.0	2710.5	2730.8	2721.8
5°	2750.2	2733.0	2694.1	2706.0	2696.3
7.5°	2739.7	2716.5	2666.3	2670.1	2651.4
10°	2724.0	2694.1	2631.9	2625.1	2607.2
12.5°	2703.8	2662.6	2587.7	2578.7	2557.7
15°	2678.3	2627.4	2540.5	2514.3	2490.3
17.5°	2649.9	2585.5	2479.8	2421.4	2380.2
20°	2613.2	2531.5	2396.7	2312.1	2252.2
22.5°	2572.0	2473.1	2303.1	2175.8	2107.6
25°	2522.5	2397.5	2185.5	2016.2	1961.6
27.5°	2467.9	2318.8	2057.4	1859.7	1787.0
30°	2399.0	2219.2	1911.4	1699.4	1615.5
32.5°	2327.1	2112.1	1752.6	1539.1	1474.0
35°	2234.2	1982.5	1605.8	1405.1	1353.4
37.5°	2140.6	1844.0	1459.7	1285.2	1239.5
40°	2033.5	1703.9	1321.9	1186.4	1154.2
42.5°	1906.1	1561.6	1205.1	1103.2	1092.0
45°	1771.3	1406.6	1100.2	1042.6	1046.3
47.5°	1624.5	1265.8	1005.1	993.9	1012.6
50°	1477.0	1134.7	925.7	957.2	986.4
52.5°	1312.9	1008.1	862.8	927.2	962.4
55°	1161.7	886.8	805.9	898.8	940.7
57.5°	1011.1	783.4	756.5	869.6	913.7
60°	861.3	689.1	708.5	838.1	884.5
62.5°	731.0	599.2	666.6	802.9	843.3
65°	602.9	523.5	623.1	761.0	800.7
67.5°	496.6	456.1	579.7	710.8	746.7
70°	395.5	392.5	533.3	655.4	688.3
72.5°	308.6	334.8	484.6	597.7	629.1
75°	234.4	285.4	438.9	539.3	558.7
77.5°	171.5	238.9	392.5	480.1	493.6
80°	117.6	198.5	348.3	420.9	430.7
82.5°	74.1	164.0	305.6	367.7	374.5
85°	41.2	135.6	267.4	319.8	324.3
87.5°	15.7	111.6	232.9	277.9	281.6
90°	0.7	94.4	204.5	238.2	238.2
92.5°	0.7	82.4	181.3	206.7	208.2
95°	1.5	72.7	161.0	178.3	176.8
97.5°	1.5	65.9	142.3	156.5	152.0
100°	1.5	59.9	128.1	137.8	133.3
102.5°	1.5	53.2	116.8	122.8	117.6
105°	1.5	44.2	107.9	112.3	107.9
107.5°	1.5	35.2	98.1	104.1	99.6
110°	1.5	26.2	89.1	96.6	92.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.7	16.5	80.9	89.9	87.6
115°	1.5	6.0	72.7	84.6	82.4
117.5°	0.7	3.0	62.2	78.6	77.9
120°	0.7	2.2	52.4	73.4	73.4
122.5°	0.7	2.2	43.4	65.9	68.9
125°	0.7	1.5	33.0	58.4	62.2
127.5°	0.7	1.5	23.2	50.9	55.4
130°	0.7	1.5	12.0	41.9	47.9
132.5°	0.7	1.5	1.5	33.0	39.7
135°	1.5	1.5	1.5	24.0	31.5
137.5°	1.5	1.5	1.5	12.7	22.5
140°	1.5	1.5	0.7	0.7	10.5
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)