

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: P290386

Luminaire Tested: **4SSRK-SLN-80-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290386
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-80-L840-CD1-U
Description: 8000 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: 8655.7 lumens
Efficiency: N/A
Efficacy: 137.6 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

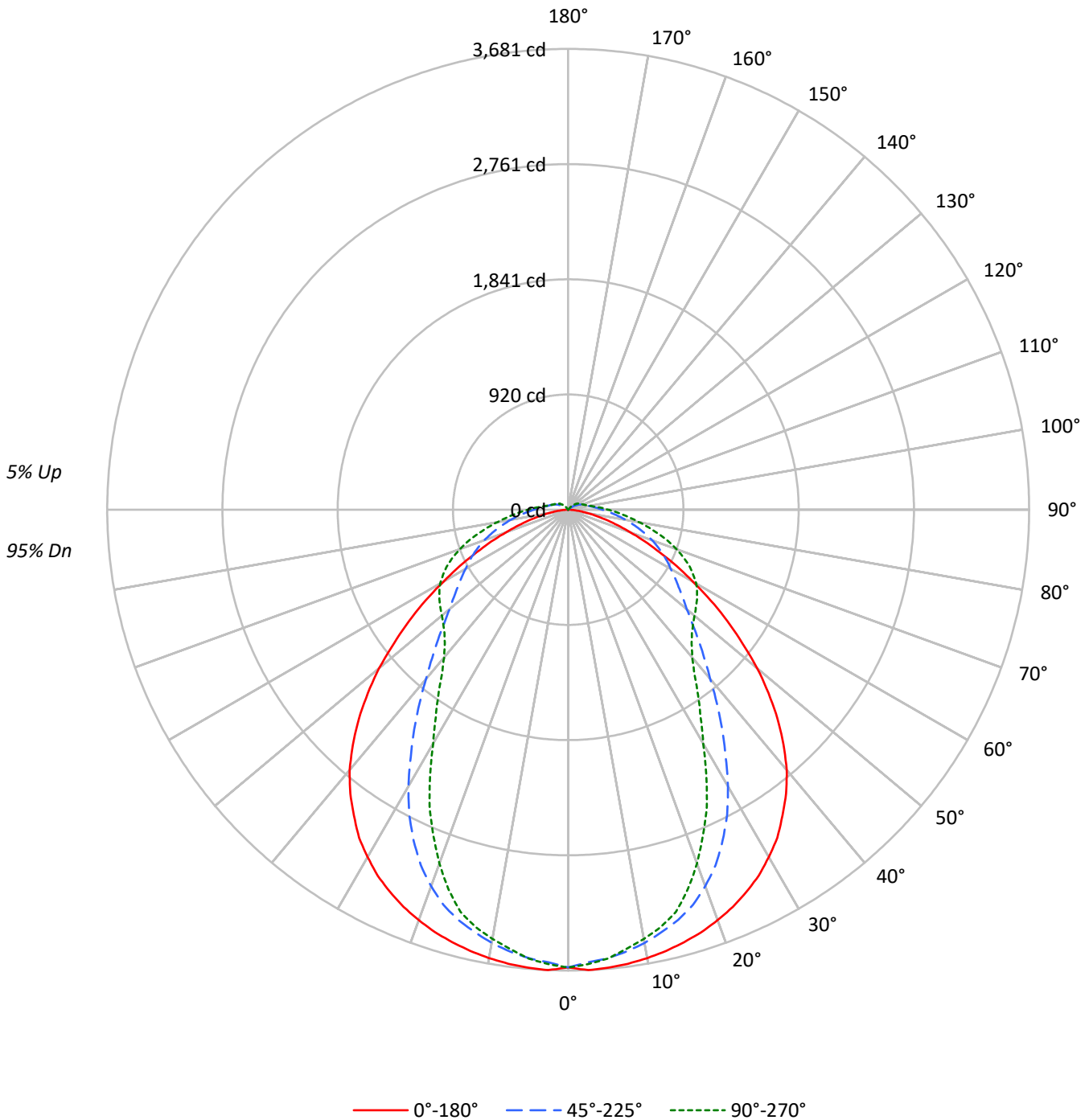
Input Watts (W): 62.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20																	
RC	80									70									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	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°	236115	236115	236115
5°	237190	186549	172885
10°	236772	153230	133866
15°	236456	128439	107305
20°	236209	107799	84151
25°	235428	89141	65136
30°	233249	71816	48606
35°	228516	56324	37483
40°	221161	43791	29822
45°	207365	34778	25519
50°	188760	28186	22945
55°	164830	23842	21068
60°	138542	20536	19241
65°	112927	17835	17056
70°	89460	15188	14473
75°	67592	12535	11687
80°	47230	10050	9029
85°	27607	7858	6868



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	343.3	4.0
10°-20°	962.3	11.1
20°-30°	1353.3	15.6
30°-40°	1417.1	16.4
40°-50°	1283.0	14.8
50°-60°	1092.0	12.6
60°-70°	863.5	10.0
70°-80°	587.9	6.8
80°-90°	335.5	3.9
90°-100°	186.1	2.1
100°-110°	113.7	1.3
110°-120°	69.1	0.8
120°-130°	37.4	0.4
130°-140°	11.3	0.1
140°-150°	0.3	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2658.9	30.7
0°-40°	4076.0	47.1
0°-60°	6451.0	74.5
0°-90°	8237.9	95.2
90°-120°	368.8	4.3
90°-150°	417.9	4.8
90°-180°	418.0	4.8
0°-180°	8655.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3656	3656	3656	3656	3656	
5°	3672	3649	3597	3613	3600	349
15°	3576	3508	3392	3357	3325	1010
25°	3368	3201	2918	2692	2619	1552
35°	2983	2647	2144	1876	1807	1864
45°	2365	1878	1469	1392	1397	1816
55°	1551	1184	1076	1200	1256	1387
65°	805	699	832	1016	1069	811
75°	313	381	586	720	746	341
85°	55	181	357	427	433	66
90°	1	126	273	318	318	3
95°	2	97	215	238	236	1
105°	2	59	144	150	144	2
115°	2	8	97	113	110	1
125°	1	2	44	78	83	1
135°	2	2	2	32	42	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°	3656	3656	3656	3656	3656
2.5°	3681	3661	3619	3646	3634
5°	3672	3649	3597	3613	3600
7.5°	3658	3627	3560	3565	3540
10°	3637	3597	3514	3505	3481
12.5°	3610	3555	3455	3443	3415
15°	3576	3508	3392	3357	3325
17.5°	3538	3452	3311	3233	3178
20°	3489	3380	3200	3087	3007
22.5°	3434	3302	3075	2905	2814
25°	3368	3201	2918	2692	2619
27.5°	3295	3096	2747	2483	2386
30°	3203	2963	2552	2269	2157
32.5°	3107	2820	2340	2055	1968
35°	2983	2647	2144	1876	1807
37.5°	2858	2462	1949	1716	1655
40°	2715	2275	1765	1584	1541
42.5°	2545	2085	1609	1473	1458
45°	2365	1878	1469	1392	1397
47.5°	2169	1690	1342	1327	1352
50°	1972	1515	1236	1278	1317
52.5°	1753	1346	1152	1238	1285
55°	1551	1184	1076	1200	1256
57.5°	1350	1046	1010	1161	1220
60°	1150	920	946	1119	1181
62.5°	976	800	890	1072	1126
65°	805	699	832	1016	1069
67.5°	663	609	774	949	997
70°	528	524	712	875	919
72.5°	412	447	647	798	840
75°	313	381	586	720	746
77.5°	229	319	524	641	659
80°	157	265	465	562	575
82.5°	99	219	408	491	500
85°	55	181	357	427	433
87.5°	21	149	311	371	376
90°	1	126	273	318	318
92.5°	1	110	242	276	278
95°	2	97	215	238	236
97.5°	2	88	190	209	203
100°	2	80	171	184	178
102.5°	2	71	156	164	157
105°	2	59	144	150	144
107.5°	2	47	131	139	133
110°	2	35	119	129	124



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1	22	108	120	117
115°	2	8	97	113	110
117.5°	1	4	83	105	104
120°	1	3	70	98	98
122.5°	1	3	58	88	92
125°	1	2	44	78	83
127.5°	1	2	31	68	74
130°	1	2	16	56	64
132.5°	1	2	2	44	53
135°	2	2	2	32	42
137.5°	2	2	2	17	30
140°	2	2	1	1	14
142.5°	0	0	0	0	0
145°	0	0	0	0	0
147.5°	0	0	0	0	0
150°	0	0	0	0	0
152.5°	0	0	0	0	0
155°	0	0	0	0	0
157.5°	0	0	0	0	0
160°	0	0	0	0	0
162.5°	0	0	0	0	0
165°	0	0	0	0	0
167.5°	0	0	0	0	0
170°	0	0	0	0	0
172.5°	0	0	0	0	0
175°	0	0	0	0	0
177.5°	0	0	0	0	0
180°	0	0	0	0	0

(END OF REPORT)