

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P519726

Luminaire Tested: **SQ4-100U-0D-840-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519726
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-100U-0D-840-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

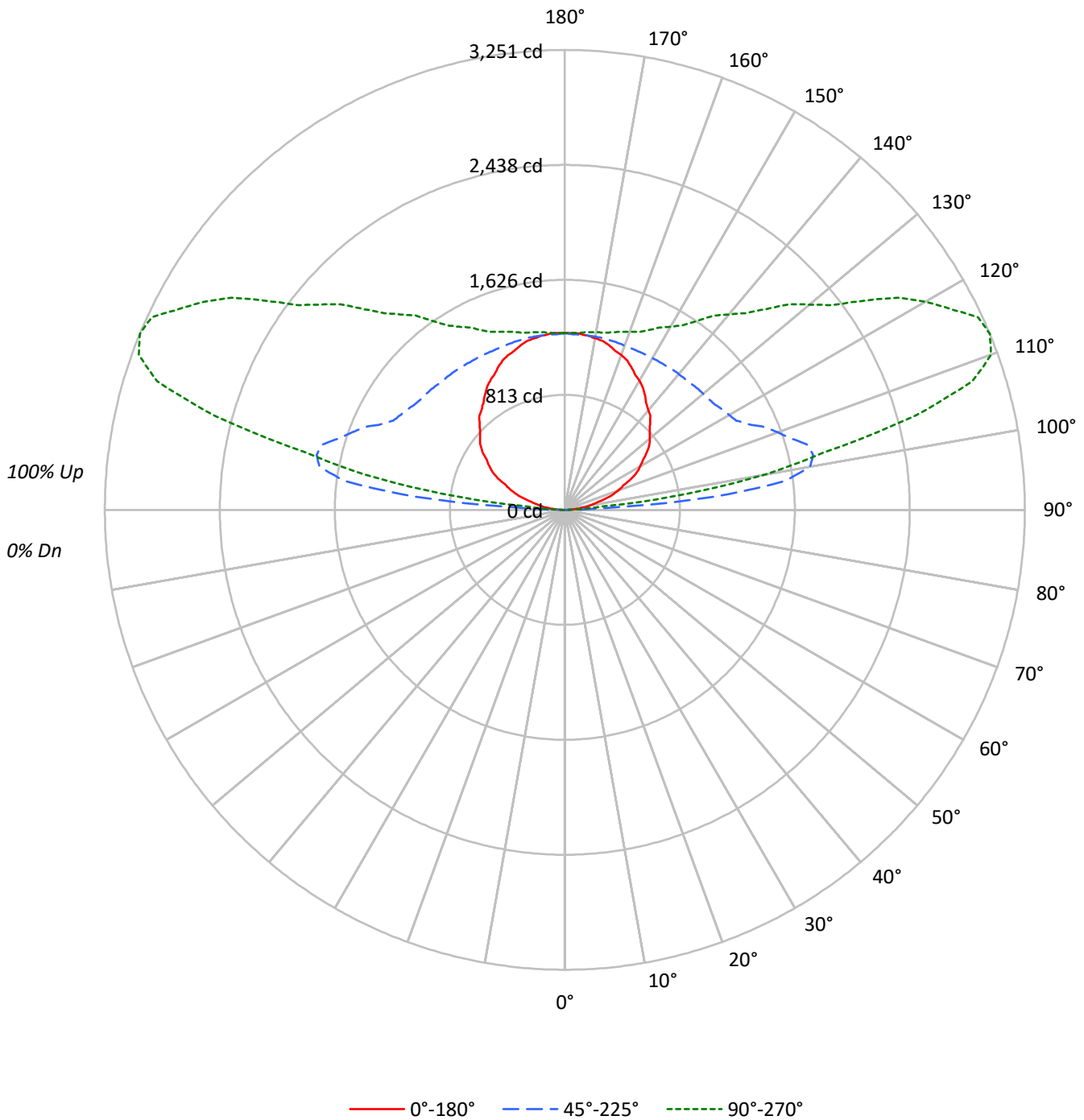
Lumens per Lamp: N/A
Luminaire Lumens: 8113.5 lumens
Efficiency: N/A
Efficacy: 163.9 lumens/watt
N/A
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Indirect

Input Watts (W): 49.5
Input Voltage (V): 120
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: 24 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									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	50	30	10	0																			
RCR																																														
0	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10	10	10	10	10	10	10	10	10	10	10	0																		
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8	8	8	8	8	8	8	8	8	8	8	0																		
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7	7	7	7	7	7	7	7	7	7	7	0																		
3	72	63	57	51	61	54	49	44	37	34	31	21	20	18	7	6	6	6	6	6	6	6	6	6	6	6	6	0																		
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	5	5	5	5	5	5	5	5	5	5	0																		
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	4	4	4	4	4	4	4	4	4	4	0																		
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4	4	4	4	4	4	4	4	4	4	4	0																		
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	3	3	3	3	3	3	3	3	3	3	0																		
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	3	3	3	3	3	3	3	3	3	3	0																		
9	43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	3	3	3	3	3	3	3	3	3	3	3	0																		
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	2	2	2	2	2	2	2	2	2	2	0																		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
95°	4547	56153	15016
100°	4883	46761	38268
105°	5128	31658	45511
110°	5444	21585	43224
115°	5627	15615	35156
120°	5678	12369	27134
125°	5689	10429	20712
130°	5621	9163	16189
135°	5553	8225	13073
140°	5535	7544	10852
145°	5558	7010	9170
150°	5619	6598	7961
155°	5665	6285	7129
160°	5718	6071	6571
165°	5754	5925	6202
170°	5774	5821	5971
175°	5782	5755	5819



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.0	0.0
10°-20°	0.0	0.0
20°-30°	0.0	0.0
30°-40°	0.0	0.0
40°-50°	0.0	0.0
50°-60°	0.0	0.0
60°-70°	0.0	0.0
70°-80°	0.0	0.0
80°-90°	0.0	0.0
90°-100°	584.8	7.2
100°-110°	1614.4	19.9
110°-120°	1664.9	20.5
120°-130°	1337.9	16.5
130°-140°	1051.5	13.0
140°-150°	806.4	9.9
150°-160°	579.6	7.1
160°-170°	354.4	4.4
170°-180°	119.5	1.5
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	0.0	0.0
90°-120°	3864.1	47.6
90°-150°	7060.0	87.0
90°-180°	8113.0	100.0
0°-180°	8113.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
90°	4	8	16	18	20	
95°	86	316	1061	436	284	97
105°	288	444	1776	2712	2553	306
115°	516	623	1430	2832	3221	507
125°	707	805	1297	2194	2575	629
135°	851	943	1261	1777	2004	659
145°	987	1055	1245	1513	1628	618
155°	1113	1150	1235	1358	1401	513
165°	1205	1220	1241	1289	1299	340
175°	1249	1251	1243	1261	1257	119
180°	1249	1249	1249	1249	1249	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
90°	4.0	7.9	16.0	18.0	20.0
92.5°	36.0	149.3	266.9	97.4	75.9
95°	85.9	316.4	1060.9	436.1	283.7
97.5°	142.3	354.4	1571.6	1210.0	876.3
100°	183.8	377.2	1760.2	1772.6	1440.5
102.5°	223.8	403.1	1796.9	2190.2	1875.3
105°	287.7	444.0	1776.2	2711.6	2553.4
107.5°	355.6	494.7	1677.1	2963.1	3020.9
110°	403.6	528.6	1600.3	3017.1	3204.7
112.5°	446.7	567.1	1528.4	2974.4	3251.0
115°	515.5	622.9	1430.5	2831.9	3220.7
117.5°	575.4	682.5	1366.2	2631.3	3073.6
120°	615.4	720.9	1340.6	2495.6	2941.0
122.5°	653.7	754.5	1319.8	2368.8	2790.7
125°	707.3	804.9	1296.7	2194.4	2575.3
127.5°	752.8	850.5	1283.1	2047.0	2375.5
130°	783.2	880.9	1276.7	1956.8	2255.7
132.5°	812.0	904.9	1270.3	1881.0	2151.8
135°	851.1	942.9	1260.7	1777.3	2003.9
137.5°	895.1	978.7	1255.9	1690.3	1883.7
140°	919.1	1001.1	1252.7	1632.2	1802.1
142.5°	946.2	1022.0	1249.5	1580.6	1730.2
145°	987.0	1055.4	1244.7	1513.1	1628.3
147.5°	1026.1	1085.9	1240.3	1456.1	1545.6
150°	1054.9	1103.7	1238.7	1422.2	1494.5
152.5°	1077.3	1123.0	1237.1	1393.1	1452.9
155°	1112.9	1150.0	1234.7	1357.6	1400.6
157.5°	1145.6	1174.1	1235.1	1331.7	1361.0
160°	1164.8	1190.2	1236.7	1317.1	1338.6
162.5°	1180.8	1203.1	1238.3	1304.2	1321.0
165°	1204.8	1220.4	1240.7	1288.9	1298.7
167.5°	1223.1	1232.5	1242.7	1279.5	1282.7
170°	1232.7	1240.5	1242.7	1274.7	1274.7
172.5°	1240.7	1245.4	1242.7	1268.3	1266.7
175°	1248.7	1250.7	1242.7	1260.6	1256.7
177.5°	1251.9	1250.3	1242.3	1253.4	1250.3
180°	1248.7	1248.7	1248.7	1248.7	1248.7

(END OF REPORT)