

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: CORELITE

Report Number: P521597

Luminaire Tested: **SQ4-F-100U-125D-93050-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521597
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-50,
Test Lab: INNOVATION CENTER
Issue Date: 5/5/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-F-100U-125D-93050-1D-UNV-STD-W-4 (4000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

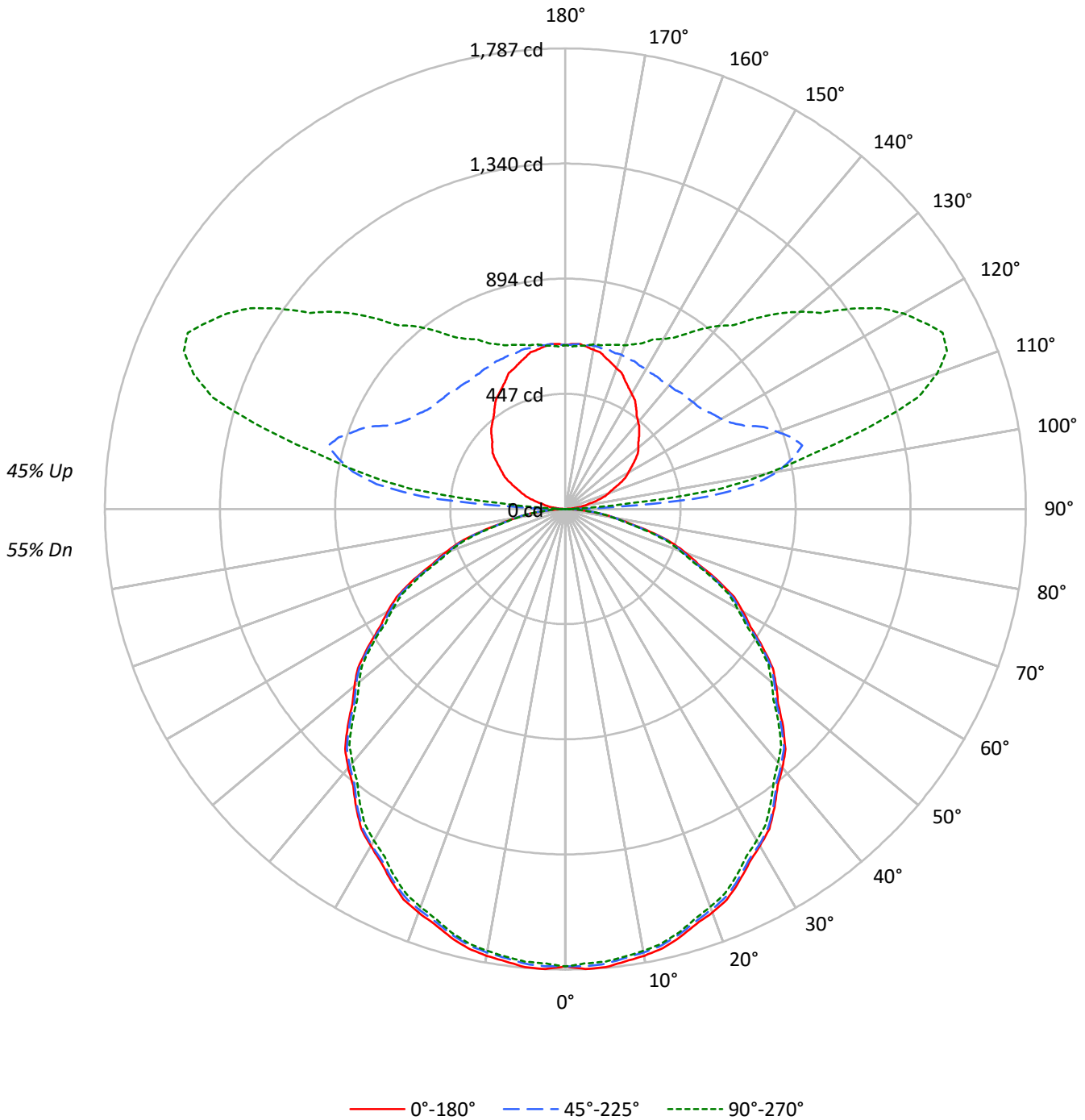
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9172.5 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.25 / 1.38
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 87.9
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				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	55		
1	99	94	90	87	92	88	84	81	75	73	71	64	62	61	54	52	51	46		
2	90	82	76	71	83	77	71	66	66	62	58	56	53	50	47	45	43	38		
3	82	72	65	59	76	67	61	55	58	53	49	49	46	42	41	39	36	32		
4	75	64	56	49	69	59	52	47	51	46	41	44	40	36	37	34	31	27		
5	69	57	48	42	63	53	46	40	46	40	36	39	35	31	33	30	27	24		
6	63	51	42	37	58	47	40	35	41	35	31	35	31	27	30	26	24	21		
7	58	46	38	32	54	43	36	30	37	31	27	32	27	24	27	24	21	18		
8	54	42	34	28	50	39	32	27	34	28	24	29	25	21	25	21	19	16		
9	50	38	30	25	47	36	29	24	31	26	22	27	22	19	23	19	17	15		
10	47	35	27	23	44	33	26	21	29	23	19	25	20	17	21	18	15	13		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16374	16374	16374
5°	16530	16409	16333
10°	16493	16371	16313
15°	16430	16324	16256
20°	16362	16253	16134
25°	16245	16153	15998
30°	16086	16031	15827
35°	15936	15856	15662
40°	15787	15678	15470
45°	15587	15455	15257
50°	15332	15217	14999
55°	15037	14890	14696
60°	14677	14472	14229
65°	14186	13900	13636
70°	13358	13032	12786
75°	12177	11817	11564
80°	10042	9989	9771
85°	7167	8130	8130



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.0	1.8
10°-20°	481.2	5.2
20°-30°	727.6	7.9
30°-40°	876.1	9.6
40°-50°	909.7	9.9
50°-60°	824.5	9.0
60°-70°	627.9	6.8
70°-80°	350.9	3.8
80°-90°	91.2	1.0
90°-100°	327.6	3.6
100°-110°	791.9	8.6
110°-120°	844.6	9.2
120°-130°	684.0	7.5
130°-140°	529.6	5.8
140°-150°	404.0	4.4
150°-160°	292.5	3.2
160°-170°	180.1	2.0
170°-180°	61.0	0.7
0°-30°	1376.8	15.0
0°-40°	2252.9	24.6
0°-60°	3987.1	43.5
0°-90°	5057.1	55.1
90°-120°	1964.1	21.4
90°-150°	3581.8	39.0
90°-180°	4115.0	44.9
0°-180°	9172.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1775	1775	1775	1775	1775	
5°	1785	1766	1772	1765	1764	169
15°	1720	1702	1709	1705	1702	485
25°	1596	1578	1587	1572	1572	735
35°	1415	1402	1408	1392	1391	885
45°	1195	1185	1184	1169	1169	921
55°	935	931	926	914	914	835
65°	650	643	637	626	625	641
75°	342	334	332	326	324	360
85°	68	74	77	78	77	84
90°	0	0	0	0	0	4
95°	32	164	561	365	256	36
105°	126	219	952	1231	1216	134
115°	232	296	765	1450	1617	229
125°	330	380	664	1153	1354	294
135°	405	453	637	909	1046	313
145°	479	515	625	773	833	300
155°	549	573	633	684	709	254
165°	607	616	641	650	660	171
175°	642	640	642	637	635	61
180°	635	635	635	635	635	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1774.7	1774.7	1774.7	1774.7	1774.7
2.5°	1786.8	1771.0	1775.5	1772.1	1765.0
5°	1784.8	1766.0	1771.7	1764.6	1763.6
7.5°	1771.0	1752.3	1757.9	1753.6	1752.7
10°	1760.5	1741.8	1747.4	1742.3	1741.3
12.5°	1746.0	1728.0	1733.7	1727.8	1726.8
15°	1720.1	1702.3	1709.0	1704.9	1701.9
17.5°	1688.4	1670.2	1678.1	1671.9	1668.4
20°	1666.5	1646.8	1655.4	1645.3	1643.3
22.5°	1639.9	1620.1	1628.8	1616.2	1615.8
25°	1595.8	1578.0	1586.7	1572.5	1571.5
27.5°	1546.3	1529.7	1538.8	1521.6	1520.4
30°	1509.9	1494.1	1504.8	1487.6	1485.6
32.5°	1472.7	1459.3	1466.0	1451.2	1448.5
35°	1414.9	1402.1	1407.8	1391.6	1390.6
37.5°	1352.8	1340.0	1345.4	1330.0	1328.2
40°	1310.8	1298.0	1301.7	1285.5	1284.5
42.5°	1264.7	1254.2	1256.4	1239.5	1240.1
45°	1194.6	1184.7	1184.5	1169.3	1169.3
47.5°	1120.0	1110.1	1110.3	1096.3	1095.1
50°	1068.2	1062.3	1060.2	1047.0	1045.0
52.5°	1014.9	1010.5	1006.8	993.7	993.3
55°	934.8	930.9	925.7	913.6	913.6
57.5°	852.8	848.2	841.7	829.5	828.5
60°	795.4	792.4	784.3	772.1	771.1
62.5°	738.0	732.6	726.0	714.7	713.7
65°	649.8	642.9	636.7	625.6	624.6
67.5°	558.3	550.6	545.3	537.6	534.6
70°	495.2	488.3	483.1	477.0	474.0
72.5°	432.2	426.0	422.4	416.3	413.4
75°	341.6	333.7	331.5	326.4	324.4
77.5°	249.6	245.7	243.8	240.1	237.3
80°	189.0	189.0	188.0	185.9	183.9
82.5°	136.4	138.0	139.5	139.0	137.0
85°	67.7	73.6	76.8	77.8	76.8
87.5°	19.4	25.7	30.7	31.5	30.7
90°	0.0	0.0	0.0	0.0	0.0
92.5°	10.8	88.7	208.9	101.6	68.9
95°	32.3	163.9	561.4	365.0	255.8
97.5°	57.3	181.6	739.3	712.3	611.4
100°	76.7	192.6	837.3	883.9	801.0
102.5°	95.0	202.4	902.0	1026.8	977.6
105°	126.5	218.7	951.8	1231.4	1215.6
107.5°	157.5	237.8	922.4	1395.5	1432.6
110°	179.0	254.1	875.0	1466.2	1536.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	200.6	270.3	833.0	1483.5	1602.8
115°	231.5	296.0	764.6	1449.6	1616.8
117.5°	262.2	323.1	724.5	1371.6	1567.5
120°	282.7	339.3	698.7	1310.5	1515.8
122.5°	304.2	356.6	682.5	1247.9	1450.1
125°	329.8	379.8	663.7	1152.9	1354.3
127.5°	355.1	402.2	650.5	1072.4	1249.3
130°	370.2	416.3	646.2	1016.3	1190.0
132.5°	384.2	432.4	639.7	975.8	1123.3
135°	405.2	452.6	636.8	909.1	1046.0
137.5°	425.1	472.8	627.3	863.9	967.1
140°	440.2	483.6	627.3	831.4	926.2
142.5°	455.3	498.7	621.9	803.1	883.1
145°	479.2	514.8	624.6	772.7	833.3
147.5°	501.6	536.1	623.0	737.8	787.8
150°	515.6	545.9	627.3	722.5	761.9
152.5°	530.7	559.9	626.2	706.2	741.5
155°	549.2	572.9	632.7	684.4	709.4
157.5°	571.6	591.9	631.4	676.1	690.9
160°	580.2	597.3	636.8	665.3	675.8
162.5°	594.2	609.2	634.6	661.9	668.3
165°	607.1	616.3	640.8	650.4	659.6
167.5°	623.0	629.1	639.2	649.7	649.9
170°	627.3	631.3	643.5	642.3	648.9
172.5°	634.9	637.8	640.3	643.1	639.2
175°	642.1	639.5	642.1	636.7	635.4
177.5°	640.8	640.8	638.6	636.4	631.1
180°	635.4	635.4	635.4	635.4	635.4

(END OF REPORT)