

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: P521391

Luminaire Tested: **SQ4-F-025U-125D-93050-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521391
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-025U-125D-93050-1D-UNV-STD-W-4 (5000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

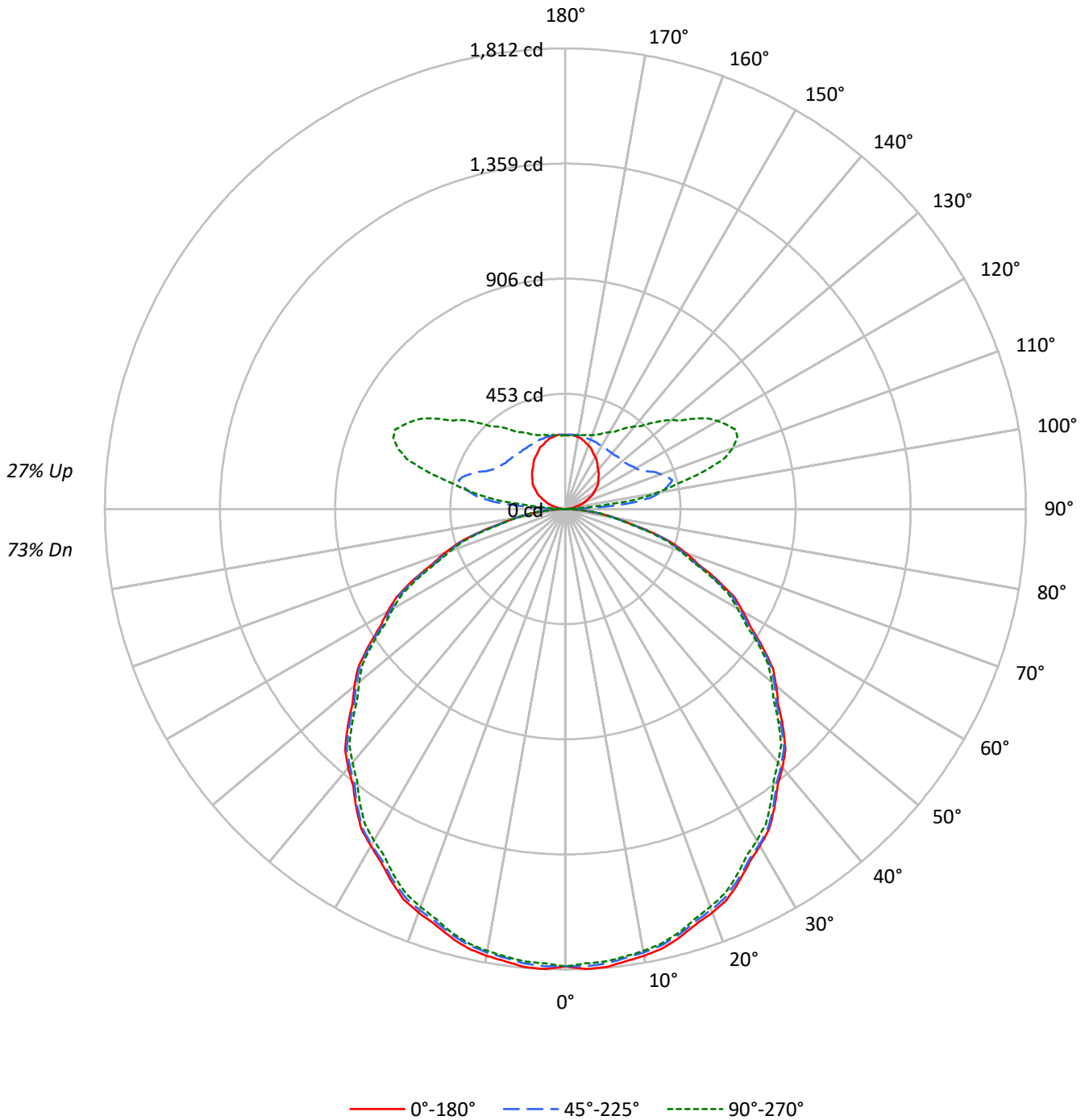
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7008.6 lumens
Efficiency: N/A
Efficacy: 100.4 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: Semi-Direct

Input Watts (W): 69.8
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				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	113	113	113	113	107	107	107	107	96	96	96	86	86	86	77	77	77	73
1	103	98	94	90	97	93	90	86	84	81	79	76	74	72	68	67	65	61
2	93	86	79	74	88	81	76	71	74	69	65	66	63	60	60	57	54	51
3	85	75	67	61	80	71	64	59	65	59	54	58	54	50	53	49	46	43
4	78	66	58	52	73	63	56	50	57	51	46	52	47	43	47	43	39	36
5	71	59	50	44	67	56	49	43	51	45	40	47	41	37	42	38	34	31
6	66	53	44	38	62	51	43	37	46	40	35	42	37	32	38	34	30	28
7	61	48	40	34	58	46	38	33	42	35	31	38	33	29	35	30	27	24
8	57	44	35	30	54	42	34	29	38	32	27	35	30	26	32	27	24	22
9	53	40	32	27	50	38	31	26	35	29	24	32	27	23	29	25	21	19
10	49	37	29	24	47	35	28	23	32	26	22	30	25	21	27	23	19	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16602	16602	16602
5°	16760	16636	16560
10°	16724	16598	16541
15°	16659	16551	16482
20°	16591	16480	16359
25°	16471	16378	16221
30°	16309	16255	16047
35°	16158	16077	15881
40°	16008	15896	15686
45°	15804	15670	15469
50°	15546	15428	15209
55°	15247	15098	14902
60°	14882	14673	14428
65°	14384	14094	13826
70°	13544	13213	12964
75°	12348	11981	11724
80°	10180	10127	9909
85°	7272	8246	8246



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.3	2.4
10°-20°	487.9	7.0
20°-30°	737.8	10.5
30°-40°	888.3	12.7
40°-50°	922.4	13.2
50°-60°	836.0	11.9
60°-70°	636.7	9.1
70°-80°	355.8	5.1
80°-90°	92.5	1.3
90°-100°	149.8	2.1
100°-110°	361.9	5.2
110°-120°	386.0	5.5
120°-130°	312.7	4.5
130°-140°	242.1	3.5
140°-150°	184.7	2.6
150°-160°	133.7	1.9
160°-170°	82.3	1.2
170°-180°	27.9	0.4
0°-30°	1396.0	19.9
0°-40°	2284.3	32.6
0°-60°	4042.7	57.7
0°-90°	5127.6	73.2
90°-120°	897.7	12.8
90°-150°	1637.1	23.4
90°-180°	1881.0	26.8
0°-180°	7008.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1799	1799	1799	1799	1799	
5°	1810	1791	1796	1789	1788	172
15°	1744	1726	1733	1729	1726	492
25°	1618	1600	1609	1594	1593	745
35°	1435	1422	1427	1411	1410	897
45°	1211	1201	1201	1186	1186	933
55°	948	944	939	926	926	847
65°	659	652	646	634	633	650
75°	346	338	336	331	329	365
85°	69	75	78	79	78	85
90°	0	0	0	0	0	3
95°	15	75	257	167	117	17
105°	58	100	435	563	556	61
115°	106	135	350	663	739	105
125°	151	174	303	527	619	135
135°	185	207	291	416	478	143
145°	219	235	286	353	381	137
155°	251	262	289	313	324	116
165°	278	282	293	297	302	78
175°	294	292	294	291	290	28
180°	290	290	290	290	290	



TEST NUMBER: P521391

CATALOG NUMBER: SQ4-F-025U-125D-93050-1D-UNV-STD-W-4 (5000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1799.4	1799.4	1799.4	1799.4	1799.4
2.5°	1811.7	1795.7	1800.2	1796.8	1789.6
5°	1809.7	1790.6	1796.3	1789.1	1788.1
7.5°	1795.7	1776.7	1782.4	1778.1	1777.1
10°	1785.1	1766.0	1771.7	1766.6	1765.6
12.5°	1770.3	1752.1	1757.8	1751.8	1750.8
15°	1744.1	1726.0	1732.8	1728.6	1725.6
17.5°	1711.9	1693.5	1701.5	1695.2	1691.6
20°	1689.8	1669.7	1678.5	1668.2	1666.2
22.5°	1662.7	1642.7	1651.4	1638.7	1638.3
25°	1618.0	1600.0	1608.8	1594.4	1593.4
27.5°	1567.8	1551.0	1560.2	1542.8	1541.6
30°	1530.9	1514.9	1525.8	1508.3	1506.3
32.5°	1493.2	1479.6	1486.5	1471.4	1468.6
35°	1434.6	1421.6	1427.4	1411.0	1410.0
37.5°	1371.7	1358.7	1364.1	1348.5	1346.7
40°	1329.1	1316.0	1319.8	1303.4	1302.4
42.5°	1282.3	1271.7	1273.9	1256.7	1257.3
45°	1211.2	1201.2	1201.0	1185.6	1185.6
47.5°	1135.6	1125.6	1125.8	1111.6	1110.4
50°	1083.1	1077.1	1074.9	1061.6	1059.6
52.5°	1029.0	1024.6	1020.8	1007.5	1007.1
55°	947.9	943.9	938.6	926.4	926.4
57.5°	864.7	860.1	853.4	841.1	840.1
60°	806.5	803.5	795.2	782.9	781.9
62.5°	748.3	742.8	736.2	724.7	723.7
65°	658.9	651.9	645.6	634.3	633.3
67.5°	566.1	558.2	552.9	545.1	542.1
70°	502.1	495.1	489.8	483.6	480.6
72.5°	438.2	432.0	428.3	422.1	419.1
75°	346.4	338.3	336.1	330.9	328.9
77.5°	253.1	249.1	247.2	243.4	240.6
80°	191.6	191.6	190.6	188.5	186.5
82.5°	138.3	139.9	141.4	141.0	139.0
85°	68.7	74.7	77.9	78.9	77.9
87.5°	19.7	26.1	31.2	32.0	31.2
90°	0.0	0.0	0.0	0.0	0.0
92.5°	4.9	40.5	95.5	46.4	31.5
95°	14.8	74.9	256.6	166.8	116.9
97.5°	26.2	83.0	337.9	325.6	279.5
100°	35.1	88.0	382.7	404.0	366.1
102.5°	43.4	92.5	412.2	469.3	446.8
105°	57.8	100.0	435.0	562.8	555.6
107.5°	72.0	108.7	421.6	637.8	654.8
110°	81.8	116.1	399.9	670.2	702.1



TEST NUMBER: P521391

CATALOG NUMBER: SQ4-F-025U-125D-93050-1D-UNV-STD-W-4 (5000K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	91.7	123.6	380.7	678.1	732.6
115°	105.8	135.3	349.5	662.6	739.0
117.5°	119.9	147.7	331.2	626.9	716.4
120°	129.2	155.1	319.3	599.0	692.8
122.5°	139.1	163.0	312.0	570.4	662.8
125°	150.7	173.6	303.3	526.9	619.0
127.5°	162.3	183.9	297.3	490.1	571.0
130°	169.2	190.3	295.3	464.5	543.9
132.5°	175.6	197.6	292.4	446.0	513.4
135°	185.2	206.9	291.0	415.5	478.1
137.5°	194.3	216.1	286.7	394.9	442.0
140°	201.2	221.1	286.7	380.0	423.3
142.5°	208.1	227.9	284.3	367.1	403.6
145°	219.0	235.3	285.5	353.2	380.9
147.5°	229.3	245.0	284.8	337.2	360.1
150°	235.7	249.5	286.7	330.2	348.3
152.5°	242.5	255.9	286.2	322.8	338.9
155°	251.0	261.9	289.2	312.8	324.3
157.5°	261.3	270.5	288.6	309.0	315.8
160°	265.2	273.0	291.0	304.1	308.9
162.5°	271.6	278.4	290.0	302.5	305.4
165°	277.5	281.7	292.9	297.3	301.5
167.5°	284.8	287.5	292.1	296.9	297.1
170°	286.7	288.5	294.1	293.6	296.6
172.5°	290.2	291.5	292.6	293.9	292.1
175°	293.5	292.3	293.5	291.0	290.4
177.5°	292.9	292.9	291.9	290.9	288.5
180°	290.4	290.4	290.4	290.4	290.4

(END OF REPORT)