

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: P521547

Luminaire Tested: **SQ4-F-0U-125D-93050-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521547
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-35)
Test Lab: INNOVATION CENTER
Issue Date: 5/5/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-F-0U-125D-93050-1D-UNV-STD-W-4 (5000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

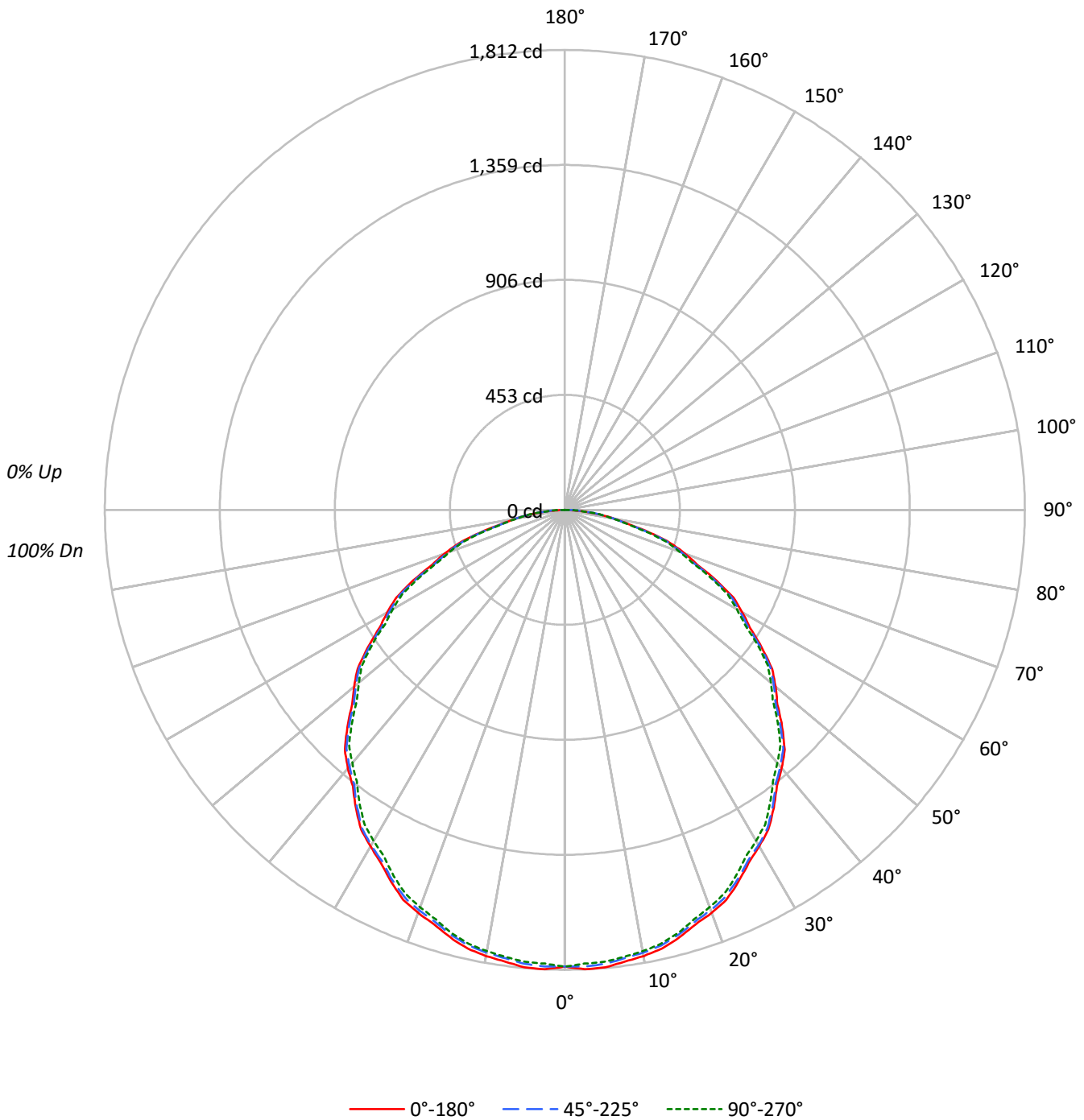
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5127.6 lumens
Efficiency: N/A
Efficacy: 92.4 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: Direct

Input Watts (W): 55.5
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				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	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91		93	91	88		90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75		82	77	73		79	75	72	70
3	90	79	71	65	87	78	70	64	75	68	63		72	66	62		69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	54		64	58	53		62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46		57	51	46		56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40		52	45	40		50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36		47	41	35		46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32		43	37	32		42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29		40	33	29		39	33	28	27
10	53	40	32	26	51	39	31	26	38	31	26		37	31	26		36	30	26	24

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	3.3
10°-20°	487.9	9.5
20°-30°	737.8	14.4
30°-40°	888.3	17.3
40°-50°	922.4	18.0
50°-60°	836.0	16.3
60°-70°	636.7	12.4
70°-80°	355.8	6.9
80°-90°	92.5	1.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1396.0	27.2
0°-40°	2284.3	44.5
0°-60°	4042.7	78.8
0°-90°	5127.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5127.6	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	88
90°	0	0	0	0	0	



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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

(END OF REPORT)