

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: P565090

Luminaire Tested: **SQ4-PW1-125U-125D-935-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P565090  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2106-289-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PW1-125U-125D-935-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

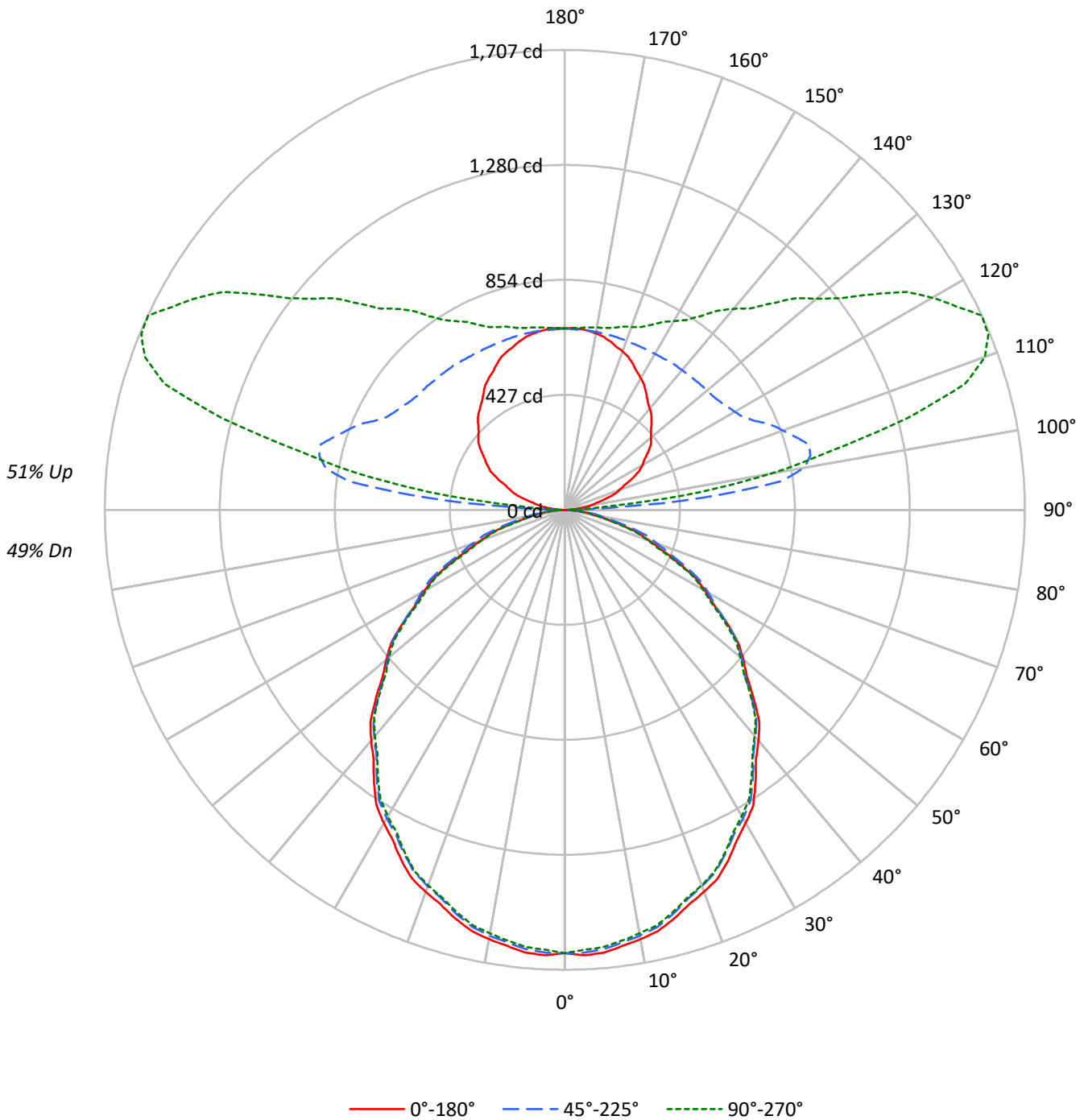
Lumens per Lamp: N/A  
Luminaire Lumens: 8532.1 lumens  
Efficiency: N/A  
Efficacy: 113.3 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 75.3  
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	107	107	107	107	99	99	99	99	83	83	83	68	68	68	55	55	55	49
1	98	93	90	86	90	86	83	80	73	70	68	60	59	57	49	48	47	42
2	89	82	76	70	82	75	70	66	64	60	57	53	50	48	43	41	40	35
3	81	72	65	59	75	66	60	55	56	52	48	47	44	41	38	36	34	30
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	34	31	29	25
5	68	57	49	43	63	53	45	40	45	39	35	38	33	30	31	28	25	22
6	63	51	43	37	58	47	40	35	40	35	31	34	30	26	28	25	22	19
7	58	46	38	32	53	43	36	31	37	31	27	31	27	23	26	22	20	17
8	54	42	34	29	50	39	32	27	33	28	24	28	24	21	24	20	18	15
9	50	38	31	25	46	35	29	24	31	25	21	26	22	19	22	18	16	14
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15	13

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	15182	15182	15182
5°	15280	15159	15092
10°	15158	15036	14954
15°	14998	14832	14776
20°	14819	14591	14563
25°	14611	14346	14302
30°	14302	14086	13993
35°	13896	13700	13618
40°	13463	13253	13201
45°	12940	12769	12712
50°	12403	12298	12215
55°	11824	11824	11638
60°	11103	11317	10915
65°	10160	10667	9907
70°	8956	9816	8721
75°	7650	8787	7443
80°	5929	7396	6009
85°	3832	5674	5060



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	155.0	1.8
10°-20°	437.5	5.1
20°-30°	648.9	7.6
30°-40°	759.3	8.9
40°-50°	755.9	8.9
50°-60°	652.8	7.7
60°-70°	469.9	5.5
70°-80°	246.4	2.9
80°-90°	62.7	0.7
90°-100°	314.8	3.7
100°-110°	847.9	9.9
110°-120°	889.9	10.4
120°-130°	722.1	8.5
130°-140°	566.3	6.6
140°-150°	434.8	5.1
150°-160°	312.6	3.7
160°-170°	191.0	2.2
170°-180°	64.4	0.8
0°-30°	1241.3	14.5
0°-40°	2000.7	23.4
0°-60°	3409.3	40.0
0°-90°	4188.3	49.1
90°-120°	2052.6	24.1
90°-150°	3775.9	44.3
90°-180°	4344.0	50.9
0°-180°	8532.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1646	1646	1646	1646	1646	
5°	1650	1632	1637	1632	1630	156
15°	1570	1550	1553	1550	1547	443
25°	1435	1411	1409	1401	1405	660
35°	1234	1217	1216	1205	1209	771
45°	992	983	979	976	974	765
55°	735	734	735	725	724	656
65°	465	480	489	469	454	461
75°	215	234	246	230	209	230
85°	36	48	54	51	48	48
90°	2	5	10	11	11	5
95°	48	171	516	264	183	50
105°	157	244	938	1403	1317	165
115°	277	339	781	1509	1707	272
125°	378	434	701	1185	1395	338
135°	455	508	682	956	1083	351
145°	526	567	673	817	878	330
155°	598	619	667	733	757	275
165°	648	656	670	696	700	183
175°	674	673	670	680	678	64
180°	673	673	673	673	673	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1645.5	1645.5	1645.5	1645.5	1645.5
2.5°	1654.8	1641.2	1645.5	1641.9	1633.9
5°	1649.9	1631.5	1636.8	1632.4	1629.6
7.5°	1633.1	1616.1	1620.0	1615.3	1613.6
10°	1618.0	1601.0	1604.9	1599.1	1596.2
12.5°	1600.6	1582.5	1586.4	1580.6	1578.9
15°	1570.2	1550.3	1552.8	1549.8	1547.0
17.5°	1534.8	1514.6	1515.1	1510.4	1509.8
20°	1509.3	1488.0	1486.1	1480.3	1483.2
22.5°	1481.4	1459.0	1457.1	1449.0	1453.0
25°	1435.3	1411.2	1409.2	1400.6	1404.9
27.5°	1382.0	1358.1	1358.2	1346.1	1350.6
30°	1342.5	1319.8	1322.2	1307.9	1313.5
32.5°	1300.8	1280.4	1281.6	1267.3	1272.9
35°	1233.8	1216.8	1216.4	1204.9	1209.1
37.5°	1165.4	1150.3	1148.0	1141.3	1142.5
40°	1117.8	1105.1	1100.4	1096.1	1096.1
42.5°	1067.9	1056.3	1051.7	1048.5	1047.3
45°	991.7	983.2	978.6	975.7	974.3
47.5°	916.3	908.3	904.4	902.3	900.9
50°	864.1	858.4	856.8	852.5	851.0
52.5°	811.9	808.5	807.0	801.4	800.0
55°	735.1	733.6	735.1	724.9	723.5
57.5°	655.0	657.3	662.0	648.3	644.9
60°	601.7	607.3	613.3	597.2	591.5
62.5°	547.2	556.2	564.6	546.1	538.2
65°	465.4	479.6	488.6	469.4	453.8
67.5°	386.5	404.1	414.9	394.2	376.7
70°	332.0	351.9	363.9	343.2	323.3
72.5°	284.5	306.6	316.3	296.8	276.9
75°	214.6	234.4	246.5	230.0	208.8
77.5°	152.2	170.9	180.9	166.6	149.0
80°	111.6	131.5	139.2	127.3	113.1
82.5°	79.2	95.6	100.9	93.7	84.1
85°	36.2	47.6	53.6	50.7	47.8
87.5°	9.6	18.2	24.1	24.3	25.4
90°	1.7	5.1	10.3	11.1	11.1
92.5°	20.9	73.9	146.1	70.3	48.9
95°	48.0	171.2	516.0	263.9	182.6
97.5°	76.6	196.0	809.3	676.1	509.9
100°	98.6	205.9	902.6	944.4	783.5
102.5°	119.8	219.7	933.5	1145.3	1013.2
105°	156.9	244.0	937.8	1403.0	1316.6
107.5°	191.8	269.6	897.8	1535.4	1557.7
110°	215.2	288.9	861.5	1576.5	1657.8

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	239.8	308.2	826.5	1567.4	1701.0
115°	276.9	338.9	780.9	1508.8	1706.6
117.5°	310.6	368.8	745.6	1415.4	1635.7
120°	332.6	388.7	727.7	1348.3	1574.6
122.5°	351.8	407.3	714.7	1279.8	1505.4
125°	378.0	434.2	701.2	1185.1	1394.6
127.5°	403.2	458.5	692.6	1101.6	1288.7
130°	418.3	473.6	689.2	1053.8	1218.1
132.5°	433.4	488.0	685.7	1011.6	1162.5
135°	455.2	508.0	681.5	956.1	1082.6
137.5°	475.9	526.5	679.2	908.9	1012.8
140°	490.3	538.9	677.2	879.9	973.8
142.5°	505.4	550.7	675.8	852.8	931.9
145°	526.3	567.4	672.9	817.4	877.8
147.5°	548.9	584.6	670.0	787.6	835.1
150°	564.0	595.0	668.6	768.9	808.3
152.5°	577.7	604.7	667.9	753.7	785.7
155°	597.5	619.2	666.9	733.4	756.9
157.5°	614.8	631.7	667.1	719.2	734.9
160°	625.7	640.0	667.7	710.9	722.6
162.5°	635.3	646.9	668.4	703.9	712.3
165°	648.0	655.6	669.5	696.1	699.5
167.5°	658.3	662.7	670.3	690.1	691.4
170°	665.2	666.8	670.3	686.6	686.6
172.5°	669.3	669.6	671.0	683.2	683.2
175°	673.7	672.9	670.3	679.7	678.0
177.5°	675.6	674.3	670.8	676.3	674.9
180°	672.9	672.9	672.9	672.9	672.9

(END OF REPORT)