

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: P565074

Luminaire Tested: **SQ4-PW1-125U-125D-830-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P565074  
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-830-1D-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: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

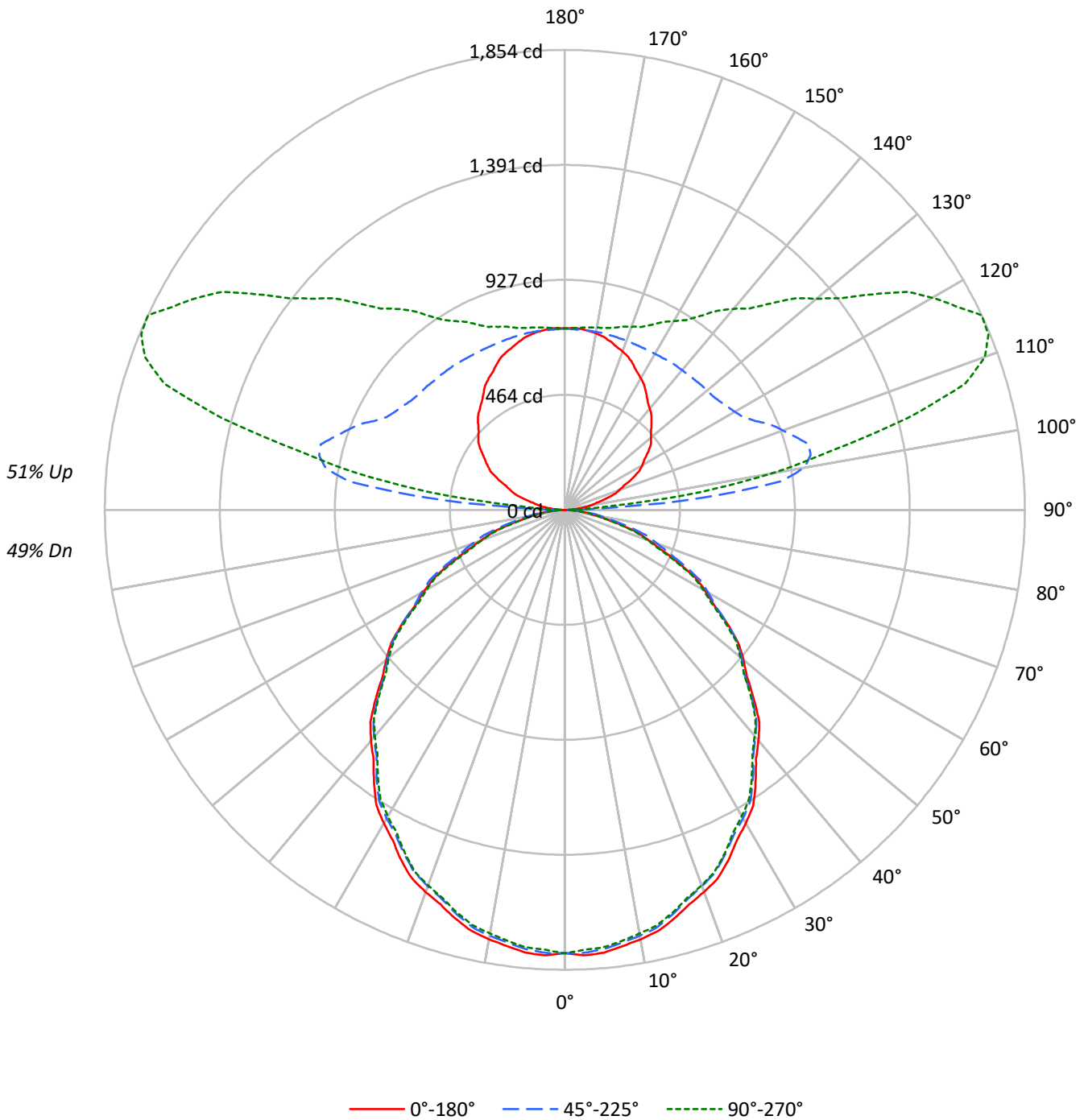
Lumens per Lamp: N/A  
Luminaire Lumens: 9268.6 lumens  
Efficiency: N/A  
Efficacy: 123.1 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

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°	16493	16493	16493
5°	16599	16468	16396
10°	16467	16334	16245
15°	16292	16112	16052
20°	16097	15850	15819
25°	15873	15585	15536
30°	15537	15303	15201
35°	15096	14883	14794
40°	14625	14397	14341
45°	14056	13871	13810
50°	13474	13360	13270
55°	12844	12844	12642
60°	12060	12293	11858
65°	11038	11588	10763
70°	9730	10663	9474
75°	8309	9543	8085
80°	6445	8033	6525
85°	4171	6172	5505



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	168.3	1.8
10°-20°	475.2	5.1
20°-30°	704.9	7.6
30°-40°	824.9	8.9
40°-50°	821.2	8.9
50°-60°	709.1	7.7
60°-70°	510.4	5.5
70°-80°	267.7	2.9
80°-90°	68.1	0.7
90°-100°	342.0	3.7
100°-110°	921.1	9.9
110°-120°	966.7	10.4
120°-130°	784.4	8.5
130°-140°	615.2	6.6
140°-150°	472.3	5.1
150°-160°	339.6	3.7
160°-170°	207.5	2.2
170°-180°	70.0	0.8
0°-30°	1348.5	14.5
0°-40°	2173.4	23.4
0°-60°	3703.6	40.0
0°-90°	4549.8	49.1
90°-120°	2229.8	24.1
90°-150°	4101.8	44.3
90°-180°	4719.0	50.9
0°-180°	9268.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1788	1788	1788	1788	1788	
5°	1792	1772	1778	1773	1770	170
15°	1706	1684	1687	1684	1680	481
25°	1559	1533	1531	1522	1526	717
35°	1340	1322	1321	1309	1314	838
45°	1077	1068	1063	1060	1058	831
55°	798	797	798	787	786	712
65°	506	521	531	510	493	501
75°	233	255	268	250	227	250
85°	39	52	58	55	52	52
90°	2	6	11	12	12	5
95°	52	186	561	287	198	54
105°	170	265	1019	1524	1430	179
115°	301	368	848	1639	1854	296
125°	411	472	762	1287	1515	367
135°	494	552	740	1039	1176	382
145°	572	616	731	888	954	359
155°	649	673	724	797	822	299
165°	704	712	727	756	760	199
175°	732	731	728	738	737	70
180°	731	731	731	731	731	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1787.6	1787.6	1787.6	1787.6	1787.6
2.5°	1797.7	1782.9	1787.6	1783.6	1775.0
5°	1792.3	1772.3	1778.1	1773.3	1770.3
7.5°	1774.0	1755.6	1759.9	1754.8	1752.9
10°	1757.7	1739.2	1743.5	1737.1	1734.0
12.5°	1738.8	1719.0	1723.3	1717.0	1715.1
15°	1705.7	1684.1	1686.8	1683.6	1680.5
17.5°	1667.3	1645.4	1645.8	1640.8	1640.2
20°	1639.5	1616.4	1614.3	1608.1	1611.2
22.5°	1609.3	1585.0	1582.8	1574.1	1578.4
25°	1559.2	1533.0	1530.9	1521.5	1526.1
27.5°	1501.3	1475.4	1475.4	1462.3	1467.2
30°	1458.4	1433.8	1436.4	1420.8	1426.9
32.5°	1413.1	1390.9	1392.3	1376.7	1382.8
35°	1340.3	1321.8	1321.4	1308.9	1313.5
37.5°	1266.0	1249.6	1247.1	1239.8	1241.1
40°	1214.3	1200.4	1195.4	1190.7	1190.7
42.5°	1160.1	1147.5	1142.5	1139.0	1137.8
45°	1077.3	1068.0	1063.1	1059.9	1058.4
47.5°	995.4	986.8	982.5	980.2	978.7
50°	938.7	932.5	930.8	926.0	924.5
52.5°	882.0	878.3	876.6	870.6	869.1
55°	798.5	797.0	798.5	787.4	785.9
57.5°	711.6	714.0	719.1	704.2	700.5
60°	653.6	659.8	666.2	648.7	642.6
62.5°	594.4	604.2	613.3	593.2	584.6
65°	505.6	521.0	530.8	509.9	493.0
67.5°	419.9	439.0	450.8	428.3	409.2
70°	360.7	382.2	395.3	372.8	351.2
72.5°	309.0	333.0	343.7	322.4	300.8
75°	233.1	254.7	267.7	249.9	226.8
77.5°	165.4	185.7	196.6	181.0	161.9
80°	121.3	142.8	151.2	138.2	122.8
82.5°	86.0	103.9	109.6	101.8	91.3
85°	39.4	51.7	58.3	55.1	52.0
87.5°	10.5	19.8	26.2	26.4	27.6
90°	1.9	5.5	11.2	12.1	12.1
92.5°	22.7	80.3	158.7	76.4	53.1
95°	52.1	186.0	560.6	286.7	198.3
97.5°	83.2	212.9	879.2	734.5	553.9
100°	107.1	223.6	980.5	1025.9	851.1
102.5°	130.2	238.7	1014.0	1244.1	1100.6
105°	170.4	265.1	1018.7	1524.1	1430.3
107.5°	208.4	292.9	975.3	1667.9	1692.1
110°	233.7	313.8	935.8	1712.6	1800.9

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	260.5	334.8	897.8	1702.7	1847.8
115°	300.8	368.1	848.3	1639.1	1854.0
117.5°	337.5	400.6	809.9	1537.6	1776.9
120°	361.3	422.3	790.6	1464.7	1710.6
122.5°	382.2	442.4	776.4	1390.2	1635.3
125°	410.6	471.6	761.7	1287.4	1515.0
127.5°	438.0	498.1	752.4	1196.7	1399.9
130°	454.4	514.5	748.7	1144.7	1323.2
132.5°	470.8	530.2	744.9	1099.0	1262.9
135°	494.5	551.8	740.3	1038.6	1176.1
137.5°	517.0	572.0	737.9	987.4	1100.3
140°	532.6	585.4	735.6	955.8	1057.8
142.5°	549.0	598.2	734.1	926.4	1012.4
145°	571.7	616.4	731.0	888.0	953.5
147.5°	596.3	635.1	727.8	855.6	907.1
150°	612.7	646.4	726.3	835.3	878.1
152.5°	627.6	656.9	725.6	818.7	853.5
155°	649.0	672.7	724.4	796.7	822.2
157.5°	667.8	686.2	724.6	781.3	798.4
160°	679.8	695.2	725.4	772.2	785.0
162.5°	690.2	702.7	726.1	764.7	773.8
165°	704.0	712.2	727.2	756.2	759.8
167.5°	715.1	719.9	728.2	749.6	751.1
170°	722.6	724.4	728.2	745.9	745.9
172.5°	727.1	727.4	728.9	742.1	742.1
175°	731.9	731.0	728.2	738.4	736.6
177.5°	733.9	732.5	728.7	734.7	733.2
180°	731.0	731.0	731.0	731.0	731.0

(END OF REPORT)