

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: P564382

Luminaire Tested: **SQ4-PR1-125U-100D-835-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564382  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2106-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PR1-125U-100D-835-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

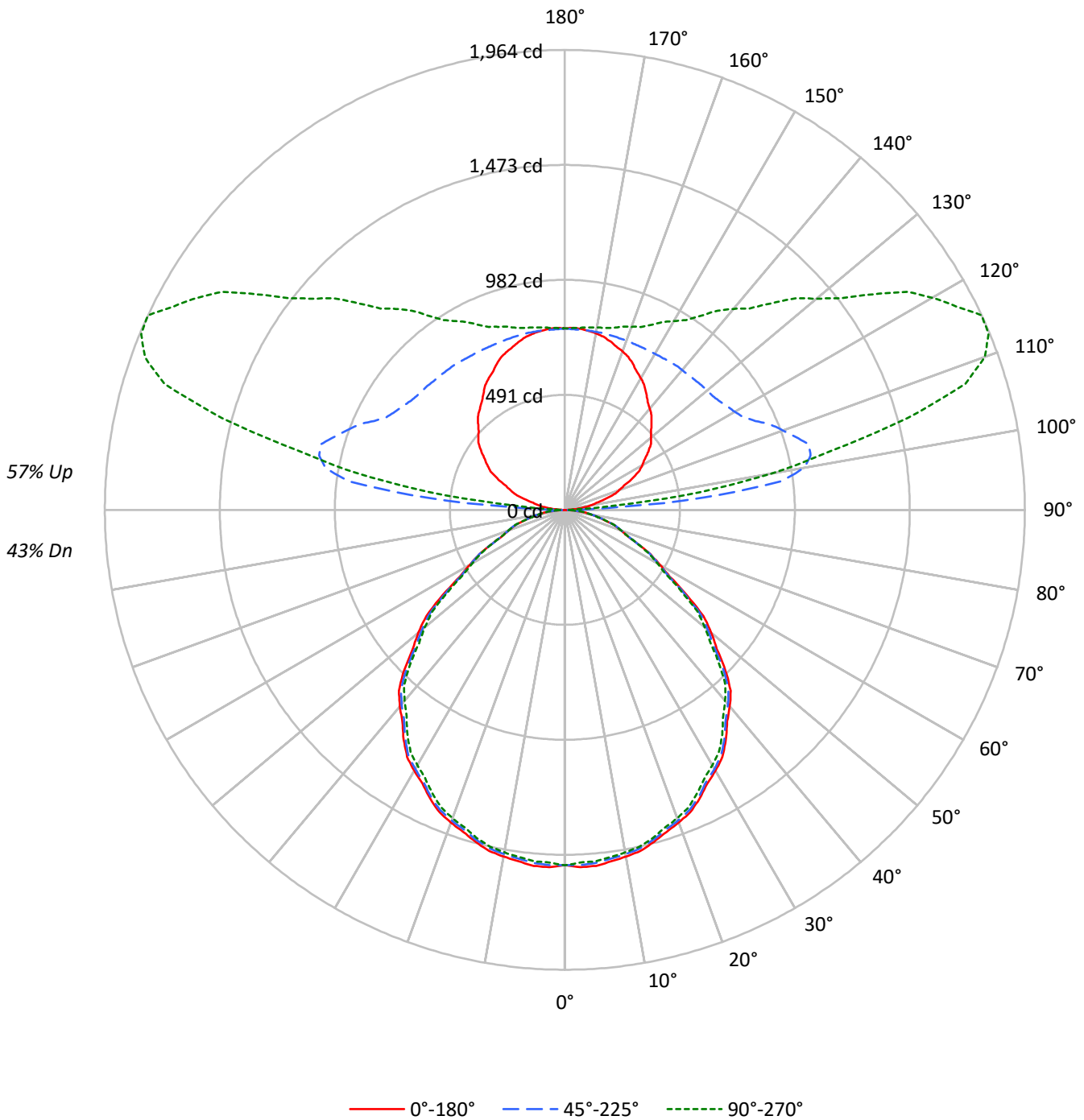
Lumens per Lamp: N/A  
Luminaire Lumens: 8796.1 lumens  
Efficiency: N/A  
Efficacy: 136.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 64.5  
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	106	106	106	106	96	96	96	96	80	80	80	64	64	64	50	50	50	43
1	96	92	89	85	88	85	81	78	70	68	66	57	55	54	44	43	43	37
2	88	81	75	70	80	74	69	65	62	58	55	50	48	45	39	38	36	31
3	80	71	64	59	73	65	59	54	55	50	46	44	41	39	35	33	31	27
4	74	63	55	50	67	58	51	46	49	44	40	40	36	33	31	29	27	23
5	68	56	48	43	62	52	45	40	44	38	34	36	32	29	28	26	24	20
6	62	51	43	37	57	47	40	35	39	34	30	32	28	25	26	23	21	18
7	58	46	38	32	53	42	35	30	36	30	26	29	25	22	24	21	19	16
8	53	41	34	29	49	38	32	27	32	27	23	27	23	20	22	19	17	14
9	50	38	30	25	45	35	28	24	30	25	21	25	21	18	20	17	15	13
10	46	35	27	23	42	32	26	21	27	22	19	23	19	16	19	16	14	12

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

	0°	45°	90°
0°	14005	14005	14005
5°	14132	14023	13951
10°	14087	13989	13915
15°	14025	13938	13863
20°	13955	13864	13762
25°	13856	13763	13604
30°	13707	13610	13414
35°	13504	13386	13195
40°	13197	13054	12818
45°	12659	12437	12181
50°	11711	11430	11204
55°	10222	9991	9780
60°	8614	8542	8372
65°	7451	7479	7423
70°	6844	6879	6879
75°	6573	6573	6620
80°	6185	6254	6185
85°	4986	5536	5536



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	143.6	1.6
10°-20°	410.7	4.7
20°-30°	619.5	7.0
30°-40°	738.1	8.4
40°-50°	727.7	8.3
50°-60°	556.2	6.3
60°-70°	344.2	3.9
70°-80°	195.5	2.2
80°-90°	61.3	0.7
90°-100°	362.3	4.1
100°-110°	975.9	11.1
110°-120°	1024.2	11.6
120°-130°	831.1	9.4
130°-140°	651.8	7.4
140°-150°	500.4	5.7
150°-160°	359.8	4.1
160°-170°	219.8	2.5
170°-180°	74.1	0.8
0°-30°	1173.8	13.3
0°-40°	1911.9	21.7
0°-60°	3195.8	36.3
0°-90°	3796.8	43.2
90°-120°	2362.3	26.9
90°-150°	4345.6	49.4
90°-180°	4999.0	56.8
0°-180°	8796.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1518	1518	1518	1518	1518	
5°	1526	1509	1514	1509	1506	145
15°	1468	1453	1459	1454	1451	414
25°	1361	1344	1352	1338	1336	626
35°	1199	1185	1188	1173	1172	748
45°	970	957	953	936	934	743
55°	636	625	621	611	608	569
65°	341	339	343	340	340	346
75°	184	184	184	186	186	195
85°	47	50	52	52	52	55
90°	2	6	12	13	13	6
95°	55	197	594	304	210	58
105°	180	281	1079	1615	1515	190
115°	319	390	899	1736	1964	314
125°	435	500	807	1364	1605	389
135°	524	585	784	1100	1246	404
145°	606	653	774	941	1010	380
155°	688	713	768	844	871	317
165°	746	754	770	801	805	210
175°	775	774	772	782	780	74
180°	774	774	774	774	774	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1518.0	1518.0	1518.0	1518.0	1518.0
2.5°	1527.4	1514.2	1518.0	1514.7	1507.6
5°	1525.9	1509.3	1514.1	1508.8	1506.3
7.5°	1514.1	1497.7	1502.6	1497.3	1495.8
10°	1503.7	1488.3	1493.2	1487.9	1485.3
12.5°	1492.1	1475.8	1481.7	1475.4	1472.8
15°	1468.3	1453.0	1459.2	1453.9	1451.4
17.5°	1442.2	1425.8	1432.0	1425.9	1422.6
20°	1421.3	1405.9	1412.1	1402.9	1401.7
22.5°	1398.3	1382.9	1389.1	1376.8	1376.6
25°	1361.1	1344.5	1352.0	1337.6	1336.3
27.5°	1316.9	1301.6	1307.8	1293.1	1291.6
30°	1286.6	1271.3	1277.5	1261.7	1259.1
32.5°	1252.1	1237.8	1242.9	1227.2	1225.7
35°	1199.0	1184.9	1188.5	1172.8	1171.5
37.5°	1138.6	1125.8	1127.9	1110.6	1109.3
40°	1095.7	1082.9	1083.9	1065.6	1064.3
42.5°	1048.6	1035.8	1034.8	1016.4	1015.2
45°	970.2	957.4	953.2	936.1	933.6
47.5°	880.7	868.0	860.1	846.2	844.4
50°	815.9	803.1	796.3	784.4	780.6
52.5°	745.8	733.0	727.2	716.4	712.6
55°	635.5	625.2	621.1	610.6	608.0
57.5°	530.6	523.7	522.5	512.3	511.2
60°	466.8	463.0	462.9	453.7	453.7
62.5°	412.4	409.6	411.6	405.6	404.5
65°	341.3	338.7	342.6	340.0	340.0
67.5°	285.0	285.0	287.4	286.3	286.3
70°	253.7	253.7	255.0	255.0	255.0
72.5°	225.4	224.4	227.8	227.7	226.7
75°	184.4	184.4	184.4	185.7	185.7
77.5°	143.6	143.8	144.9	144.6	143.6
80°	116.4	117.6	117.7	116.4	116.4
82.5°	89.2	90.5	90.5	90.2	89.2
85°	47.1	49.6	52.3	52.3	52.3
87.5°	14.0	18.9	23.3	23.5	22.4
90°	2.0	5.8	11.8	12.8	12.8
92.5°	24.1	85.0	168.1	80.9	56.2
95°	55.2	197.0	593.9	303.7	210.1
97.5°	88.2	225.6	931.5	778.2	586.8
100°	113.4	236.9	1038.8	1086.9	901.7
102.5°	137.9	252.9	1074.3	1318.1	1166.1
105°	180.5	280.9	1079.3	1614.6	1515.3
107.5°	220.8	310.3	1033.3	1767.0	1792.7
110°	247.6	332.5	991.5	1814.4	1907.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	276.0	354.7	951.2	1803.9	1957.7
115°	318.6	390.0	898.7	1736.5	1964.2
117.5°	357.5	424.5	858.1	1629.0	1882.5
120°	382.8	447.4	837.6	1551.8	1812.2
122.5°	404.9	468.7	822.6	1472.9	1732.5
125°	435.1	499.7	807.0	1363.9	1605.1
127.5°	464.1	527.7	797.1	1267.8	1483.1
130°	481.4	545.1	793.2	1212.8	1401.8
132.5°	498.8	561.7	789.2	1164.3	1337.9
135°	523.8	584.6	784.3	1100.3	1246.0
137.5°	547.7	606.0	781.7	1046.1	1165.7
140°	564.3	620.2	779.4	1012.7	1120.7
142.5°	581.7	633.7	777.8	981.5	1072.5
145°	605.7	653.0	774.4	940.7	1010.2
147.5°	631.8	672.9	771.1	906.5	961.1
150°	649.1	684.8	769.5	885.0	930.3
152.5°	664.9	696.0	768.7	867.4	904.2
155°	687.6	712.7	767.5	844.1	871.1
157.5°	707.5	727.0	767.7	827.7	845.8
160°	720.2	736.6	768.5	818.1	831.6
162.5°	731.2	744.5	769.3	810.2	819.8
165°	745.8	754.5	770.5	801.1	805.0
167.5°	757.6	762.7	771.5	794.2	795.7
170°	765.5	767.5	771.5	790.2	790.2
172.5°	770.3	770.7	772.2	786.3	786.3
175°	775.4	774.4	771.5	782.3	780.3
177.5°	777.6	776.0	772.1	778.3	776.8
180°	774.4	774.4	774.4	774.4	774.4

(END OF REPORT)