

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: P562067

Luminaire Tested: **SQ4-PR1-125U-100D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562067  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-92765-1D-UNV-STD-W-4 (4500K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9749.8 lumens  
Efficiency: N/A  
Efficacy: 116.5 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

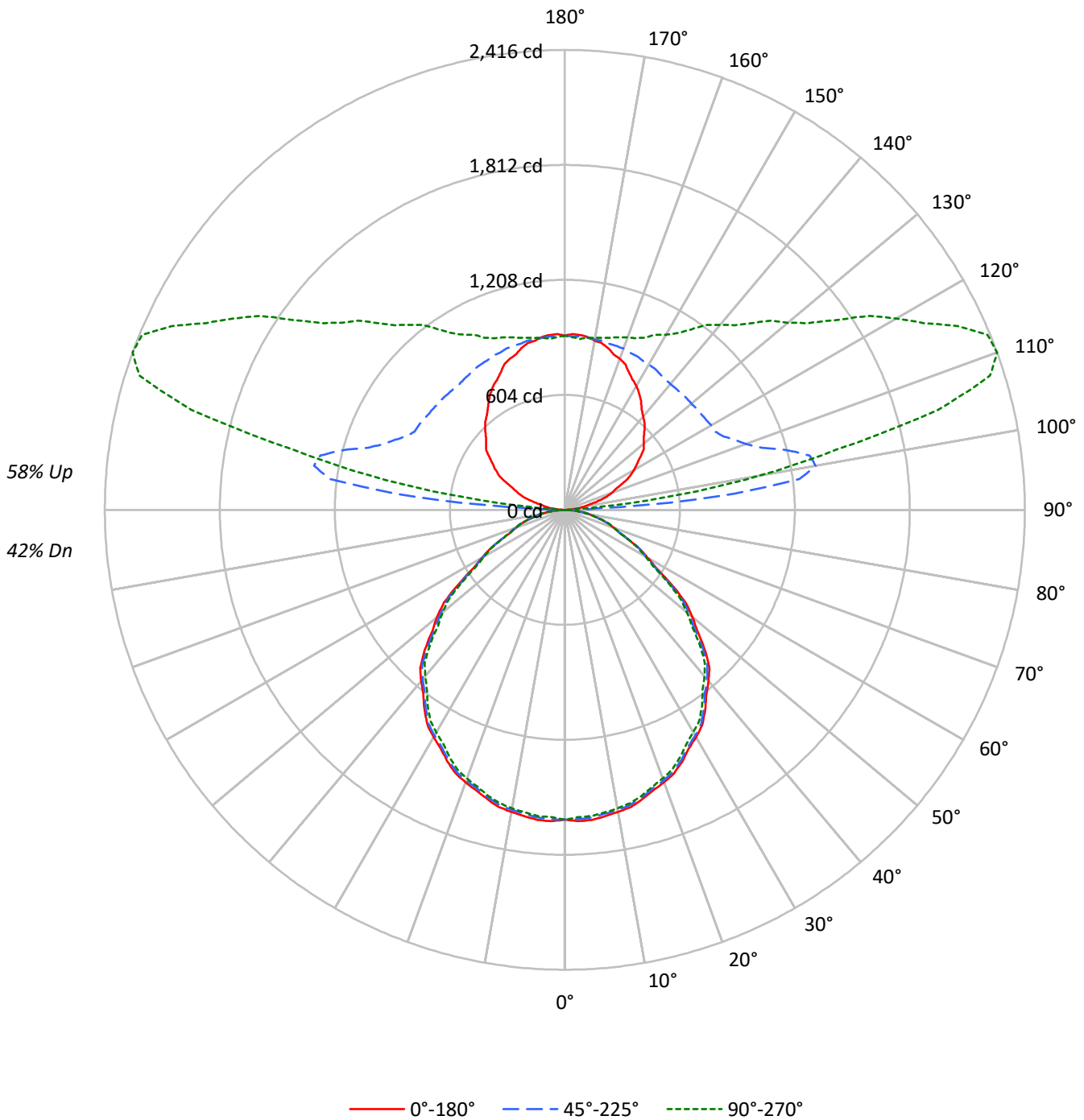
Input Watts (W): 83.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	49	49	49	42
1	96	92	88	85	88	84	81	78	69	67	65	56	54	53	43	42	41	36
2	88	81	75	70	80	74	69	64	61	57	54	49	47	45	38	37	35	30
3	80	71	64	58	73	65	59	54	54	50	46	44	41	38	34	32	30	26
4	73	63	55	49	67	58	51	46	48	43	39	39	35	33	31	28	26	22
5	67	56	48	42	61	52	45	39	43	38	34	35	31	28	28	25	23	20
6	62	50	42	37	56	46	39	34	39	33	30	32	28	25	25	22	20	17
7	57	45	38	32	52	42	35	30	35	30	26	29	25	22	23	20	18	15
8	53	41	34	28	49	38	31	27	32	27	23	26	22	20	21	18	16	14
9	50	38	30	25	45	35	28	24	29	24	21	24	20	18	19	17	15	12
10	46	34	27	23	42	32	26	21	27	22	19	22	19	16	18	15	13	11

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

	0°	45°	90°
0°	15011	15011	15011
5°	15146	15029	14952
10°	15098	14993	14915
15°	15031	14938	14858
20°	14956	14860	14750
25°	14851	14751	14580
30°	14691	14586	14377
35°	14474	14347	14142
40°	14144	13991	13739
45°	13567	13330	13056
50°	12552	12249	12008
55°	10956	10708	10481
60°	9232	9154	8973
65°	7986	8016	7955
70°	7335	7372	7372
75°	7044	7044	7094
80°	6626	6700	6626
85°	5335	5939	5939



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	153.9	1.6
10°-20°	440.2	4.5
20°-30°	664.0	6.8
30°-40°	791.1	8.1
40°-50°	780.0	8.0
50°-60°	596.1	6.1
60°-70°	368.9	3.8
70°-80°	209.5	2.1
80°-90°	63.7	0.7
90°-100°	416.8	4.3
100°-110°	1186.1	12.2
110°-120°	1136.4	11.7
120°-130°	899.4	9.2
130°-140°	721.9	7.4
140°-150°	565.2	5.8
150°-160°	413.5	4.2
160°-170°	256.2	2.6
170°-180°	86.9	0.9
0°-30°	1258.0	12.9
0°-40°	2049.1	21.0
0°-60°	3425.2	35.1
0°-90°	4067.3	41.7
90°-120°	2739.4	28.1
90°-150°	4925.9	50.5
90°-180°	5682.0	58.3
0°-180°	9749.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1627	1627	1627	1627	1627	
5°	1635	1618	1623	1617	1614	155
15°	1574	1557	1564	1558	1556	444
25°	1459	1441	1449	1434	1432	671
35°	1285	1270	1274	1257	1256	802
45°	1040	1026	1022	1003	1001	797
55°	681	670	666	654	652	610
65°	366	363	367	364	364	371
75°	198	198	198	199	199	209
85°	50	53	56	56	56	59
90°	0	0	0	0	0	4
95°	45	180	807	279	172	52
105°	184	280	1209	2135	2030	195
115°	343	414	916	1942	2280	337
125°	484	536	875	1452	1736	433
135°	591	641	864	1226	1386	456
145°	697	733	871	1061	1157	436
155°	796	815	892	959	998	368
165°	880	883	903	922	936	247
175°	922	917	913	908	901	87
180°	915	915	915	915	915	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1627.0	1627.0	1627.0	1627.0	1627.0
2.5°	1637.1	1622.8	1627.0	1623.5	1615.8
5°	1635.4	1617.6	1622.8	1617.1	1614.4
7.5°	1622.8	1605.3	1610.5	1604.8	1603.2
10°	1611.6	1595.1	1600.4	1594.7	1592.0
12.5°	1599.2	1581.7	1588.0	1581.2	1578.5
15°	1573.7	1557.3	1563.9	1558.3	1555.5
17.5°	1545.7	1528.2	1534.8	1528.3	1524.7
20°	1523.3	1506.9	1513.5	1503.6	1502.3
22.5°	1498.6	1482.2	1488.8	1475.6	1475.4
25°	1458.8	1441.0	1449.0	1433.6	1432.2
27.5°	1411.5	1395.0	1401.7	1385.9	1384.3
30°	1379.0	1362.5	1369.1	1352.3	1349.5
32.5°	1342.0	1326.6	1332.1	1315.3	1313.6
35°	1285.1	1270.0	1273.8	1257.0	1255.6
37.5°	1220.3	1206.6	1208.8	1190.3	1188.9
40°	1174.4	1160.6	1161.7	1142.1	1140.7
42.5°	1123.9	1110.2	1109.0	1089.4	1088.0
45°	1039.8	1026.1	1021.6	1003.3	1000.6
47.5°	944.0	930.3	921.8	906.9	905.0
50°	874.5	860.8	853.4	840.7	836.6
52.5°	799.3	785.6	779.4	767.9	763.7
55°	681.1	670.1	665.7	654.4	651.6
57.5°	568.7	561.3	560.0	549.0	547.9
60°	500.3	496.2	496.1	486.3	486.3
62.5°	442.0	439.0	441.2	434.7	433.6
65°	365.8	363.0	367.2	364.4	364.4
67.5°	305.5	305.5	308.0	306.9	306.9
70°	271.9	271.9	273.3	273.3	273.3
72.5°	241.6	240.5	244.1	244.1	243.0
75°	197.6	197.6	197.6	199.0	199.0
77.5°	153.9	154.1	155.3	155.0	153.9
80°	124.7	126.1	126.1	124.7	124.7
82.5°	95.6	96.9	97.0	96.7	95.6
85°	50.4	53.2	56.1	56.1	56.1
87.5°	14.6	19.0	22.4	22.4	21.3
90°	0.0	0.0	0.0	0.0	0.0
92.5°	13.9	73.8	171.1	49.8	37.6
95°	45.2	179.6	807.0	279.3	172.2
97.5°	83.1	210.3	1242.8	889.3	609.4
100°	109.6	228.6	1337.4	1354.7	1043.5
102.5°	138.8	248.3	1316.6	1734.0	1462.3
105°	184.4	279.6	1208.7	2135.1	2029.6
107.5°	230.6	316.0	1082.8	2248.1	2342.0
110°	262.6	342.5	1010.5	2204.9	2415.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	293.2	369.1	961.8	2102.5	2403.2
115°	342.6	414.0	916.5	1941.7	2280.1
117.5°	386.1	453.1	889.8	1765.8	2124.2
120°	420.9	477.0	887.0	1665.2	2008.8
122.5°	448.7	504.8	880.0	1577.0	1896.1
125°	483.5	536.2	874.8	1451.7	1735.7
127.5°	521.4	570.7	872.0	1376.8	1610.8
130°	540.9	590.2	867.9	1324.7	1528.7
132.5°	561.8	609.7	867.9	1284.0	1471.7
135°	591.3	640.6	864.4	1226.3	1386.1
137.5°	619.1	667.1	864.0	1177.4	1315.5
140°	640.0	689.3	862.6	1137.0	1269.6
142.5°	663.7	704.8	866.8	1104.6	1223.7
145°	697.4	733.1	871.3	1061.3	1156.6
147.5°	726.3	761.0	879.0	1017.6	1099.9
150°	751.3	775.1	881.8	1003.1	1060.9
152.5°	770.8	796.0	884.5	983.5	1037.2
155°	796.5	815.2	892.2	959.2	998.3
157.5°	828.5	839.8	893.9	948.1	976.0
160°	845.2	853.7	900.9	939.7	963.5
162.5°	855.0	864.8	902.3	932.6	951.0
165°	880.0	883.4	902.6	922.1	935.7
167.5°	897.1	894.0	910.6	919.5	924.9
170°	902.6	900.9	907.9	909.7	916.5
172.5°	915.2	909.4	912.0	906.9	912.4
175°	921.8	916.7	913.1	907.7	900.9
177.5°	924.5	916.4	912.0	906.5	907.9
180°	914.8	914.8	914.8	914.8	914.8

(END OF REPORT)