

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: P562233

Luminaire Tested: **SQ4-PW1-050U-125D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562233  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-PW1-050U-125D-92765-1D-UNV-STD-W-4 (3000K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

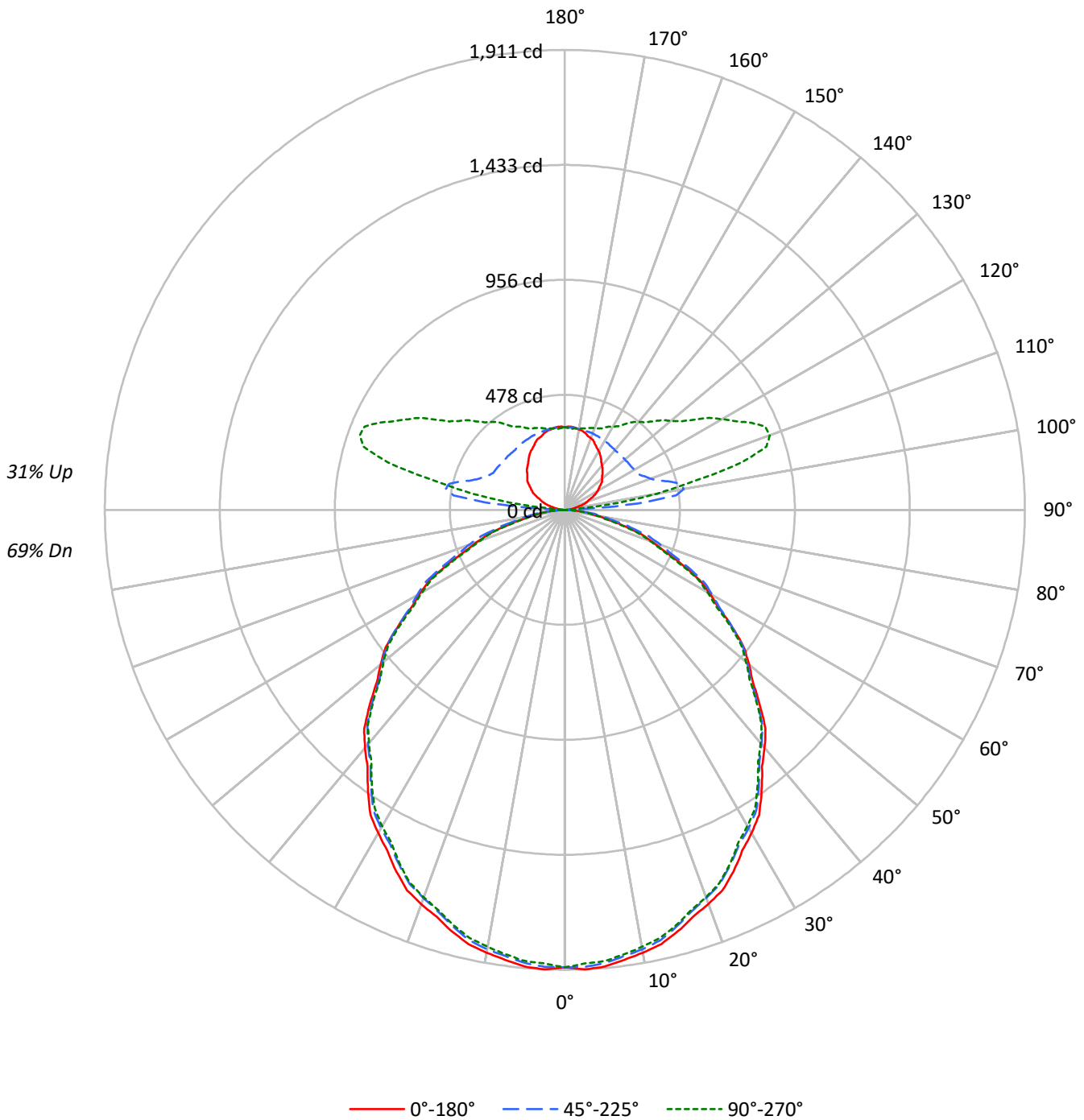
Lumens per Lamp: N/A  
Luminaire Lumens: 6967.2 lumens  
Efficiency: N/A  
Efficacy: 97.4 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 71.5  
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	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74	69
1	102	98	94	90	97	93	89	86	83	80	78	74	72	70	66	64	63	59
2	93	86	79	74	88	81	76	71	73	68	65	65	62	59	58	55	53	49
3	85	75	68	62	80	72	65	59	64	59	55	58	53	50	51	48	45	42
4	78	67	59	53	73	64	56	51	57	51	47	51	47	43	46	42	39	36
5	72	60	51	45	68	57	49	44	51	45	40	46	41	37	41	37	34	31
6	66	54	45	39	62	51	44	38	46	40	35	42	37	33	38	33	30	28
7	61	49	40	35	58	46	39	34	42	36	31	38	33	29	34	30	27	24
8	57	44	36	31	54	42	35	30	39	32	28	35	30	26	32	27	24	22
9	53	41	33	28	50	39	32	27	35	29	25	32	27	23	29	25	22	20
10	50	37	30	25	47	36	29	24	33	27	23	30	25	21	27	23	20	18

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

	0°	45°	90°
0°	17535	17535	17535
5°	17649	17509	17432
10°	17508	17366	17273
15°	17322	17130	17066
20°	17115	16852	16819
25°	16876	16569	16518
30°	16519	16270	16162
35°	16050	15824	15730
40°	15550	15308	15246
45°	14945	14748	14683
50°	14325	14204	14108
55°	13656	13656	13441
60°	12823	13070	12607
65°	11734	12319	11442
70°	10345	11338	10073
75°	8833	10149	8595
80°	6849	8544	6939
85°	4435	6563	5854



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	179.0	2.6
10°-20°	505.3	7.3
20°-30°	749.5	10.8
30°-40°	877.0	12.6
40°-50°	873.1	12.5
50°-60°	753.9	10.8
60°-70°	542.7	7.8
70°-80°	284.6	4.1
80°-90°	70.6	1.0
90°-100°	156.4	2.2
100°-110°	444.9	6.4
110°-120°	426.3	6.1
120°-130°	337.4	4.8
130°-140°	270.8	3.9
140°-150°	212.0	3.0
150°-160°	155.1	2.2
160°-170°	96.1	1.4
170°-180°	32.6	0.5
0°-30°	1433.8	20.6
0°-40°	2310.7	33.2
0°-60°	3937.8	56.5
0°-90°	4835.6	69.4
90°-120°	1027.6	14.7
90°-150°	1847.8	26.5
90°-180°	2132.0	30.6
0°-180°	6967.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1901	1901	1901	1901	1901	
5°	1906	1884	1890	1885	1882	180
15°	1814	1791	1793	1790	1787	511
25°	1658	1630	1628	1618	1623	762
35°	1425	1405	1405	1392	1397	891
45°	1145	1136	1130	1127	1125	884
55°	849	847	849	837	836	757
65°	538	554	564	542	524	533
75°	248	271	285	266	241	266
85°	42	55	62	58	55	55
90°	0	0	0	0	0	2
95°	17	67	303	105	65	19
105°	69	105	453	801	761	73
115°	128	155	344	728	855	127
125°	181	201	328	545	651	162
135°	222	240	324	460	520	171
145°	262	275	327	398	434	163
155°	299	306	335	360	374	138
165°	330	331	339	346	351	93
175°	346	344	342	340	338	33
180°	343	343	343	343	343	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1900.6	1900.6	1900.6	1900.6	1900.6
2.5°	1911.3	1895.6	1900.6	1896.4	1887.2
5°	1905.6	1884.3	1890.5	1885.4	1882.2
7.5°	1886.2	1866.5	1871.1	1865.7	1863.7
10°	1868.8	1849.1	1853.7	1846.9	1843.7
12.5°	1848.7	1827.7	1832.3	1825.5	1823.6
15°	1813.5	1790.6	1793.4	1790.0	1786.7
17.5°	1772.7	1749.4	1749.9	1744.5	1743.9
20°	1743.2	1718.6	1716.4	1709.8	1713.0
22.5°	1711.0	1685.2	1682.9	1673.6	1678.2
25°	1657.8	1629.9	1627.6	1617.7	1622.6
27.5°	1596.2	1568.7	1568.7	1554.8	1560.0
30°	1550.6	1524.4	1527.2	1510.6	1517.1
32.5°	1502.4	1478.8	1480.3	1463.7	1470.2
35°	1425.0	1405.4	1404.9	1391.6	1396.6
37.5°	1346.0	1328.6	1325.9	1318.2	1319.5
40°	1291.1	1276.3	1271.0	1265.9	1265.9
42.5°	1233.5	1220.0	1214.7	1211.0	1209.7
45°	1145.4	1135.6	1130.3	1126.9	1125.3
47.5°	1058.3	1049.1	1044.6	1042.2	1040.6
50°	998.0	991.5	989.6	984.6	982.9
52.5°	937.7	933.8	932.0	925.6	924.0
55°	849.0	847.3	849.0	837.2	835.6
57.5°	756.6	759.2	764.6	748.8	744.8
60°	694.9	701.5	708.3	689.8	683.2
62.5°	632.0	642.4	652.1	630.8	621.6
65°	537.5	553.9	564.3	542.1	524.1
67.5°	446.4	466.7	479.2	455.3	435.0
70°	383.5	406.4	420.3	396.3	373.4
72.5°	328.5	354.1	365.4	342.8	319.8
75°	247.8	270.8	284.7	265.7	241.1
77.5°	175.8	197.4	209.0	192.4	172.1
80°	128.9	151.9	160.8	147.0	130.6
82.5°	91.4	110.4	116.5	108.3	97.1
85°	41.9	55.0	62.0	58.5	55.3
87.5°	10.7	19.9	25.5	25.5	26.8
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.2	27.7	64.2	18.7	14.1
95°	17.0	67.4	302.7	104.8	64.6
97.5°	31.2	78.9	466.2	333.6	228.6
100°	41.1	85.8	501.7	508.2	391.4
102.5°	52.1	93.1	493.9	650.5	548.5
105°	69.2	104.9	453.4	800.9	761.3
107.5°	86.5	118.5	406.2	843.3	878.5
110°	98.5	128.5	379.0	827.1	906.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	110.0	138.4	360.8	788.7	901.5
115°	128.5	155.3	343.8	728.3	855.3
117.5°	144.8	170.0	333.8	662.4	796.8
120°	157.9	178.9	332.7	624.7	753.5
122.5°	168.3	189.4	330.1	591.6	711.2
125°	181.4	201.1	328.2	544.6	651.1
127.5°	195.6	214.1	327.1	516.5	604.2
130°	202.9	221.4	325.5	496.9	573.4
132.5°	210.7	228.7	325.5	481.6	552.1
135°	221.8	240.3	324.2	460.0	520.0
137.5°	232.3	250.2	324.1	441.7	493.5
140°	240.1	258.6	323.6	426.5	476.2
142.5°	249.0	264.4	325.2	414.4	459.0
145°	261.6	275.0	326.8	398.1	433.8
147.5°	272.4	285.5	329.7	381.7	412.6
150°	281.8	290.8	330.8	376.3	398.0
152.5°	289.1	298.6	331.8	368.9	389.1
155°	298.8	305.8	334.7	359.8	374.5
157.5°	310.8	315.0	335.3	355.7	366.1
160°	317.1	320.3	337.9	352.5	361.4
162.5°	320.7	324.4	338.5	349.8	356.7
165°	330.1	331.4	338.6	345.9	351.0
167.5°	336.5	335.4	341.6	344.9	346.9
170°	338.6	338.0	340.5	341.3	343.8
172.5°	343.3	341.1	342.1	340.2	342.2
175°	345.8	343.9	342.5	340.5	337.9
177.5°	346.8	343.7	342.1	340.0	340.5
180°	343.2	343.2	343.2	343.2	343.2

(END OF REPORT)