

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: P564310

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

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564310  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-PR1-100U-125D-835-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

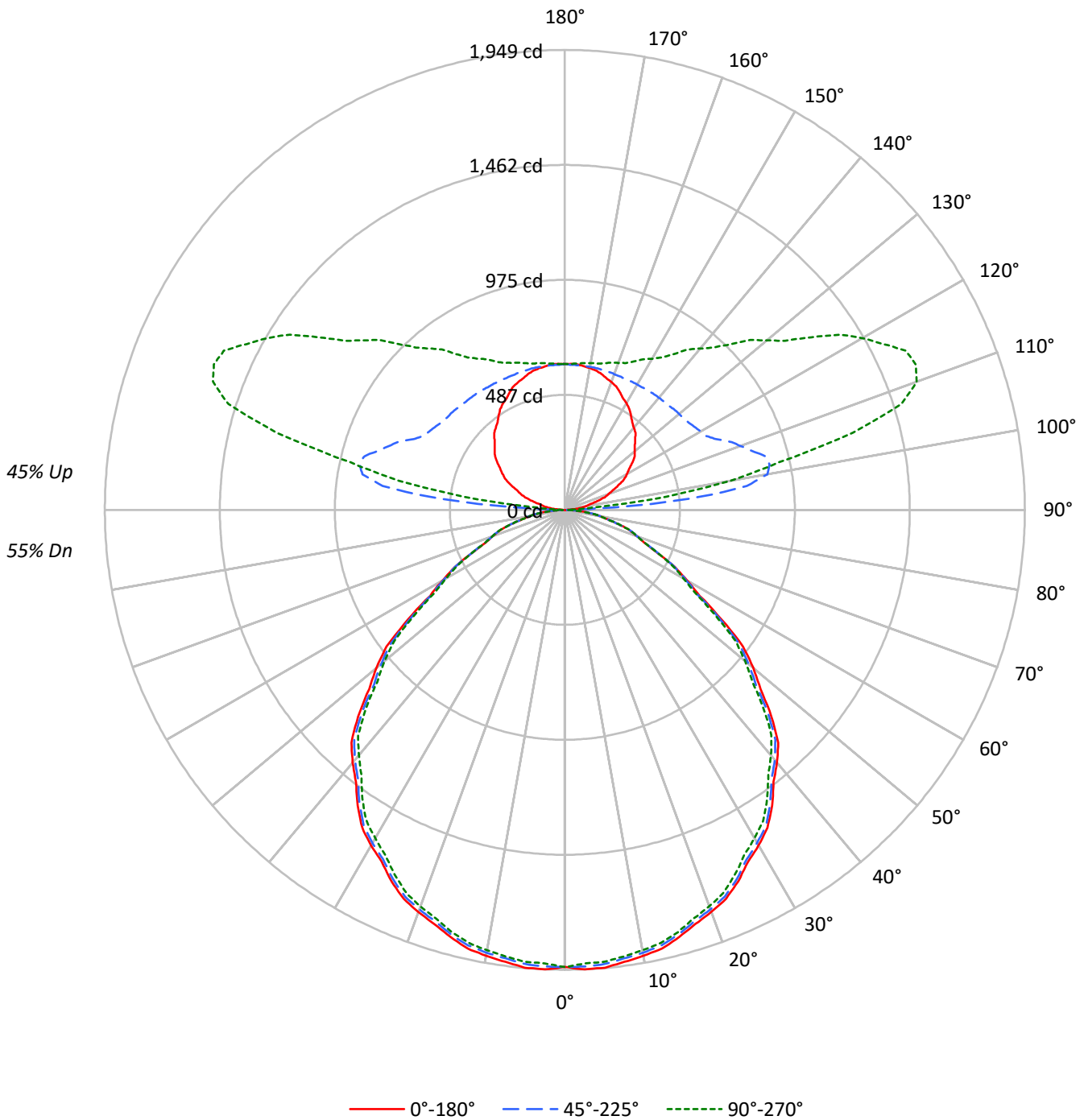
Lumens per Lamp: N/A  
Luminaire Lumens: 8860.4 lumens  
Efficiency: N/A  
Efficacy: 129.0 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 68.7  
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	108	108	108	108	100	100	100	100	86	86	86	73	73	73	60	60	60	55
1	99	95	91	88	92	88	85	82	76	73	71	64	63	61	54	53	52	47
2	91	83	77	72	84	78	72	68	67	63	60	57	54	52	48	46	44	40
3	83	73	66	60	77	69	62	57	59	54	50	51	47	44	43	40	38	34
4	76	65	57	51	70	61	54	49	53	47	43	45	41	38	38	35	33	29
5	70	58	50	44	65	54	47	42	47	42	37	41	36	33	35	31	29	26
6	64	52	44	38	60	49	42	37	43	37	33	37	32	29	31	28	25	23
7	60	47	39	34	55	44	37	32	39	33	29	34	29	26	29	25	23	20
8	55	43	35	30	51	40	33	29	35	30	26	31	26	23	26	23	20	18
9	51	39	32	27	48	37	30	26	33	27	23	28	24	21	24	21	18	16
10	48	36	29	24	45	34	27	23	30	25	21	26	22	19	23	19	17	15

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

	0°	45°	90°
0°	17873	17873	17873
5°	18034	17895	17802
10°	17977	17852	17758
15°	17898	17786	17691
20°	17807	17694	17562
25°	17683	17564	17360
30°	17492	17367	17118
35°	17234	17083	16838
40°	16841	16659	16358
45°	16155	15871	15545
50°	14945	14586	14297
55°	13044	12749	12481
60°	10992	10900	10684
65°	9507	9545	9470
70°	8732	8778	8778
75°	8388	8388	8445
80°	7890	7980	7890
85°	6362	7061	7061



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	183.2	2.1
10°-20°	524.1	5.9
20°-30°	790.6	8.9
30°-40°	941.9	10.6
40°-50°	928.7	10.5
50°-60°	709.8	8.0
60°-70°	439.2	5.0
70°-80°	249.5	2.8
80°-90°	77.2	0.9
90°-100°	289.5	3.3
100°-110°	799.1	9.0
110°-120°	824.2	9.3
120°-130°	662.3	7.5
130°-140°	520.5	5.9
140°-150°	399.2	4.5
150°-160°	286.9	3.2
160°-170°	175.5	2.0
170°-180°	59.2	0.7
0°-30°	1497.9	16.9
0°-40°	2439.8	27.5
0°-60°	4078.3	46.0
0°-90°	4844.1	54.7
90°-120°	1912.8	21.6
90°-150°	3494.8	39.4
90°-180°	4016.0	45.3
0°-180°	8860.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1937	1937	1937	1937	1937	
5°	1947	1926	1932	1926	1922	185
15°	1874	1854	1862	1855	1852	529
25°	1737	1716	1725	1707	1705	799
35°	1530	1512	1517	1497	1495	955
45°	1238	1222	1216	1195	1191	949
55°	811	798	793	779	776	727
65°	436	432	437	434	434	441
75°	235	235	235	237	237	248
85°	60	63	67	67	67	70
90°	2	4	8	9	10	5
95°	42	157	525	216	140	45
105°	142	220	879	1342	1264	152
115°	255	308	708	1402	1594	251
125°	350	398	642	1086	1275	312
135°	421	467	624	880	992	326
145°	489	522	616	749	806	306
155°	551	569	611	672	693	254
165°	596	604	614	638	643	168
175°	618	619	615	624	622	59
180°	618	618	618	618	618	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1937.2	1937.2	1937.2	1937.2	1937.2
2.5°	1949.2	1932.3	1937.2	1933.0	1923.9
5°	1947.2	1926.0	1932.2	1925.5	1922.2
7.5°	1932.2	1911.3	1917.5	1910.8	1908.8
10°	1918.9	1899.3	1905.5	1898.8	1895.5
12.5°	1904.2	1883.3	1890.8	1882.7	1879.5
15°	1873.8	1854.2	1862.1	1855.4	1852.1
17.5°	1840.4	1819.6	1827.4	1819.7	1815.4
20°	1813.7	1794.2	1802.1	1790.3	1788.7
22.5°	1784.4	1764.8	1772.7	1757.0	1756.7
25°	1737.0	1715.8	1725.3	1706.9	1705.3
27.5°	1680.6	1661.0	1668.9	1650.2	1648.2
30°	1641.9	1622.3	1630.2	1610.1	1606.8
32.5°	1597.8	1579.6	1586.1	1566.1	1564.1
35°	1530.1	1512.1	1516.7	1496.7	1495.0
37.5°	1453.0	1436.7	1439.3	1417.3	1415.6
40°	1398.3	1382.0	1383.2	1359.9	1358.2
42.5°	1338.2	1321.9	1320.5	1297.1	1295.5
45°	1238.1	1221.8	1216.4	1194.6	1191.4
47.5°	1124.0	1107.6	1097.6	1079.8	1077.6
50°	1041.2	1024.9	1016.2	1001.0	996.1
52.5°	951.8	935.4	928.1	914.3	909.4
55°	810.9	797.9	792.6	779.2	775.9
57.5°	677.1	668.3	666.8	653.7	652.4
60°	595.7	590.8	590.7	579.0	579.0
62.5°	526.3	522.7	525.3	517.6	516.3
65°	435.5	432.2	437.2	433.8	433.8
67.5°	363.7	363.7	366.8	365.4	365.4
70°	323.7	323.7	325.4	325.4	325.4
72.5°	287.7	286.4	290.7	290.6	289.3
75°	235.3	235.3	235.3	236.9	236.9
77.5°	183.2	183.5	184.9	184.5	183.2
80°	148.5	150.1	150.2	148.5	148.5
82.5°	113.8	115.4	115.5	115.1	113.8
85°	60.1	63.3	66.7	66.7	66.7
87.5°	17.7	23.4	28.3	28.5	27.3
90°	2.0	3.9	7.9	8.9	9.9
92.5°	17.8	73.9	132.1	48.2	37.6
95°	42.5	156.6	525.2	215.9	140.4
97.5°	70.4	175.4	778.0	599.0	433.8
100°	91.0	186.7	871.3	877.5	713.1
102.5°	110.8	199.5	889.5	1084.2	928.3
105°	142.4	219.8	879.2	1342.3	1264.0
107.5°	176.0	244.9	830.2	1466.8	1495.4
110°	199.8	261.7	792.2	1493.5	1586.4

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	221.1	280.7	756.6	1472.4	1609.3
115°	255.2	308.4	708.1	1401.9	1594.3
117.5°	284.8	337.8	676.3	1302.6	1521.5
120°	304.6	356.8	663.6	1235.3	1455.8
122.5°	323.6	373.5	653.3	1172.6	1381.5
125°	350.1	398.5	641.9	1086.3	1274.8
127.5°	372.7	421.0	635.1	1013.3	1175.9
130°	387.7	436.0	632.0	968.6	1116.6
132.5°	401.9	448.0	628.8	931.1	1065.2
135°	421.3	466.8	624.1	879.8	992.0
137.5°	443.1	484.5	621.7	836.7	932.4
140°	454.9	495.6	620.1	808.0	892.1
142.5°	468.4	505.9	618.5	782.4	856.5
145°	488.6	522.4	616.2	749.0	806.0
147.5°	508.0	537.5	614.0	720.8	765.1
150°	522.2	546.4	613.2	704.0	739.8
152.5°	533.3	555.9	612.4	689.6	719.2
155°	550.9	569.3	611.2	672.0	693.3
157.5°	567.1	581.2	611.4	659.2	673.7
160°	576.6	589.2	612.2	652.0	662.6
162.5°	584.5	595.5	613.0	645.6	653.9
165°	596.4	604.1	614.2	638.0	642.9
167.5°	605.5	610.1	615.2	633.4	634.9
170°	610.2	614.1	615.2	631.0	631.0
172.5°	614.2	616.5	615.2	627.8	627.0
175°	618.1	619.1	615.2	624.0	622.1
177.5°	619.7	618.9	615.0	620.5	618.9
180°	618.1	618.1	618.1	618.1	618.1

(END OF REPORT)