

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: P564487

Luminaire Tested: **SQ4-PR1-150U-100D-930-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564487  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, 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-PR1-150U-100D-930-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

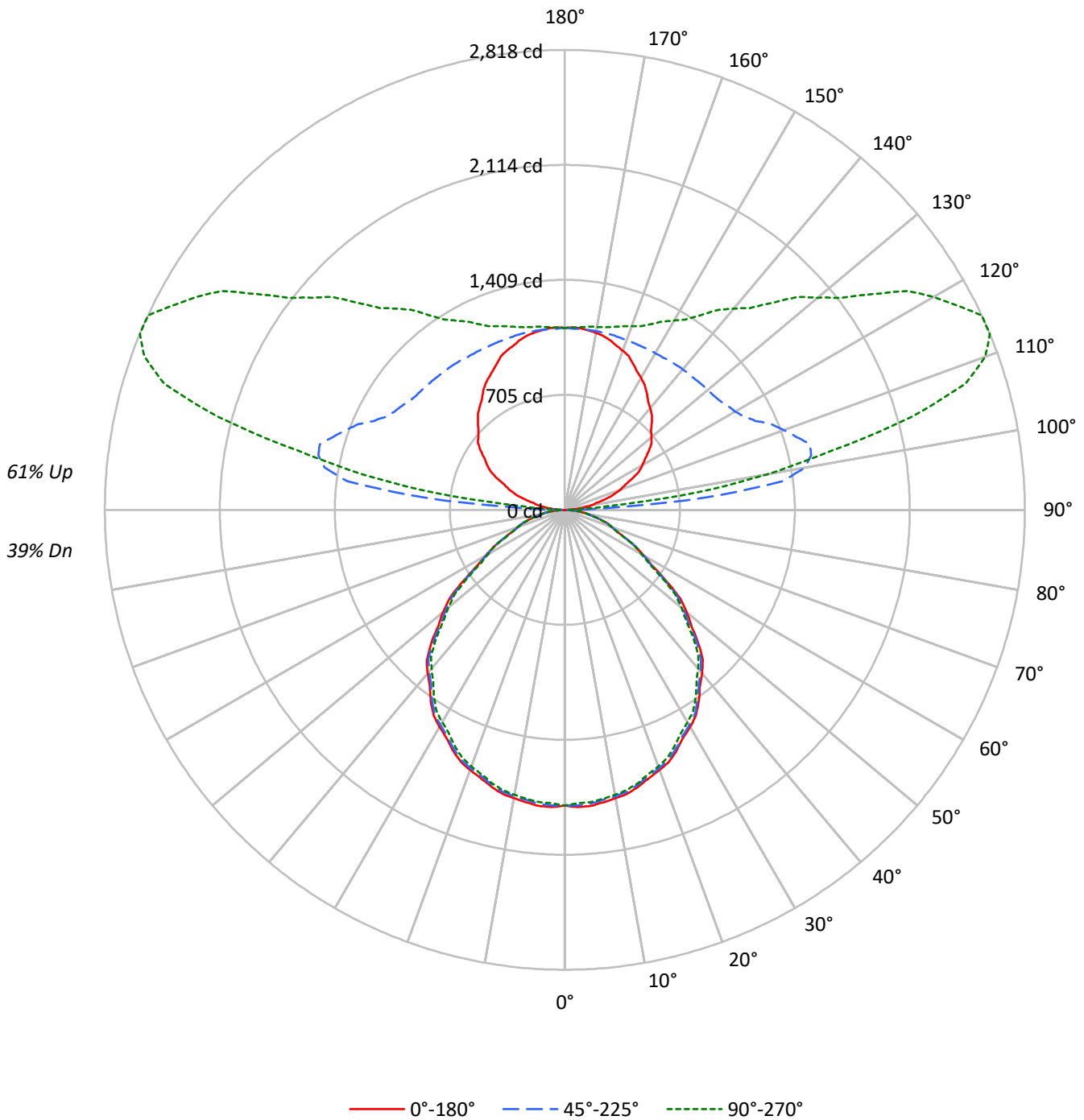
Lumens per Lamp: N/A  
Luminaire Lumens: 11722.4 lumens  
Efficiency: N/A  
Efficacy: 104.0 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 112.7  
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	50	30	10	0	
RCR																						
0	104	104	104	104	95	95	95	95	77	77	77	61	61	61	46	46	46	39				
1	95	91	88	84	87	83	80	77	68	66	64	54	52	51	41	40	39	33				
2	87	80	74	69	79	73	68	64	60	56	53	47	45	43	36	35	33	28				
3	80	70	63	58	72	64	58	53	53	48	45	42	39	36	32	30	28	24				
4	73	62	55	49	66	57	50	45	47	42	38	38	34	31	29	27	25	21				
5	67	56	48	42	61	51	44	39	42	37	33	34	30	27	26	24	22	18				
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	24	21	19	16				
7	57	45	37	32	52	41	34	30	34	29	25	28	24	21	22	19	17	14				
8	53	41	33	28	48	37	31	26	31	26	22	25	22	19	20	17	15	13				
9	49	37	30	25	45	34	28	23	29	24	20	23	20	17	18	16	14	11				
10	46	34	27	22	42	31	25	21	26	21	18	21	18	15	17	14	12	10				

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

	0°	45°	90°
0°	11145	11145	11145
5°	11245	11159	11101
10°	11210	11132	11074
15°	11161	11091	11032
20°	11105	11033	10951
25°	11026	10952	10825
30°	10907	10830	10675
35°	10747	10653	10500
40°	10502	10388	10200
45°	10073	9897	9693
50°	9319	9095	8915
55°	8134	7949	7782
60°	6854	6797	6663
65°	5928	5951	5906
70°	5445	5472	5472
75°	5231	5231	5266
80°	4920	4977	4920
85°	3966	4404	4404



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	171.4	1.5
10°-20°	490.2	4.2
20°-30°	739.5	6.3
30°-40°	881.1	7.5
40°-50°	868.6	7.4
50°-60°	663.9	5.7
60°-70°	410.8	3.5
70°-80°	233.3	2.0
80°-90°	73.3	0.6
90°-100°	518.3	4.4
100°-110°	1401.4	12.0
110°-120°	1473.3	12.6
120°-130°	1196.7	10.2
130°-140°	938.7	8.0
140°-150°	720.5	6.1
150°-160°	518.2	4.4
160°-170°	316.5	2.7
170°-180°	106.7	0.9
0°-30°	1401.1	12.0
0°-40°	2282.1	19.5
0°-60°	3814.6	32.5
0°-90°	4532.1	38.7
90°-120°	3393.0	28.9
90°-150°	6249.0	53.3
90°-180°	7190.0	61.3
0°-180°	11722.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1812	1812	1812	1812	1812	
5°	1821	1802	1807	1801	1798	173
15°	1753	1734	1742	1735	1732	495
25°	1625	1605	1614	1597	1595	748
35°	1431	1414	1419	1400	1398	893
45°	1158	1143	1138	1117	1114	887
55°	758	746	741	729	726	680
65°	407	404	409	406	406	413
75°	220	220	220	222	222	232
85°	56	59	62	62	62	65
90°	2	7	16	17	16	8
95°	80	282	862	446	265	84
105°	260	402	1555	2293	2199	274
115°	459	561	1289	2496	2818	453
125°	628	719	1162	1961	2304	560
135°	753	842	1131	1583	1792	582
145°	875	941	1115	1355	1459	547
155°	988	1027	1106	1216	1256	456
165°	1076	1086	1110	1154	1160	303
175°	1116	1115	1112	1126	1124	106
180°	1115	1115	1115	1115	1115	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1812.0	1812.0	1812.0	1812.0	1812.0
2.5°	1823.2	1807.3	1812.0	1808.0	1799.5
5°	1821.3	1801.5	1807.3	1801.0	1797.9
7.5°	1807.3	1787.8	1793.6	1787.3	1785.4
10°	1794.8	1776.5	1782.3	1776.0	1773.0
12.5°	1781.1	1761.5	1768.6	1761.0	1758.0
15°	1752.7	1734.4	1741.7	1735.4	1732.4
17.5°	1721.5	1701.9	1709.3	1702.0	1698.0
20°	1696.5	1678.2	1685.6	1674.6	1673.1
22.5°	1669.0	1650.7	1658.1	1643.4	1643.1
25°	1624.7	1604.9	1613.8	1596.6	1595.0
27.5°	1571.9	1553.6	1561.0	1543.5	1541.7
30°	1535.7	1517.4	1524.8	1506.0	1503.0
32.5°	1494.5	1477.4	1483.6	1464.8	1463.0
35°	1431.2	1414.4	1418.7	1399.9	1398.4
37.5°	1359.1	1343.8	1346.3	1325.6	1324.1
40°	1307.9	1292.6	1293.8	1271.9	1270.4
42.5°	1251.7	1236.4	1235.1	1213.3	1211.7
45°	1158.0	1142.8	1137.8	1117.4	1114.3
47.5°	1051.3	1036.0	1026.6	1010.0	1007.9
50°	973.9	958.6	950.5	936.3	931.7
52.5°	890.2	875.0	868.1	855.2	850.6
55°	758.5	746.3	741.3	728.8	725.7
57.5°	633.3	625.1	623.7	611.5	610.2
60°	557.2	552.6	552.5	541.6	541.6
62.5°	492.2	488.9	491.3	484.1	482.9
65°	407.3	404.3	408.9	405.8	405.8
67.5°	340.2	340.2	343.0	341.8	341.8
70°	302.8	302.8	304.3	304.3	304.3
72.5°	269.1	267.8	271.9	271.8	270.6
75°	220.1	220.1	220.1	221.6	221.6
77.5°	171.4	171.7	172.9	172.6	171.4
80°	138.9	140.4	140.5	138.9	138.9
82.5°	106.4	108.0	108.0	107.7	106.4
85°	56.2	59.2	62.4	62.4	62.4
87.5°	16.7	22.5	28.1	28.3	26.8
90°	2.4	7.1	15.6	16.8	15.6
92.5°	34.1	124.2	245.1	106.4	77.1
95°	80.4	282.3	861.9	446.1	265.3
97.5°	129.2	323.8	1343.6	1111.9	816.6
100°	165.7	340.6	1493.4	1557.4	1259.3
102.5°	199.3	363.8	1546.2	1895.3	1672.3
105°	260.5	402.5	1554.6	2293.2	2199.3
107.5°	317.2	446.8	1486.7	2541.4	2572.6
110°	361.3	478.7	1426.2	2608.0	2740.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	400.7	510.6	1370.5	2594.7	2817.5
115°	458.6	560.7	1289.3	2495.9	2817.5
117.5°	515.2	611.0	1235.8	2344.9	2709.5
120°	549.8	643.7	1204.1	2236.5	2608.6
122.5°	582.5	674.5	1184.9	2120.4	2495.3
125°	627.8	719.4	1162.1	1961.0	2303.7
127.5°	669.6	759.5	1148.6	1830.9	2132.3
130°	692.7	785.4	1142.9	1750.5	2022.8
132.5°	716.7	808.5	1137.1	1678.0	1928.7
135°	752.7	841.9	1130.8	1583.4	1792.3
137.5°	789.0	873.2	1125.6	1506.6	1676.8
140°	813.9	892.6	1123.6	1457.2	1608.6
142.5°	837.9	911.9	1119.8	1412.6	1545.3
145°	875.1	940.9	1115.2	1355.3	1458.6
147.5°	909.0	967.2	1110.0	1303.4	1382.7
150°	934.0	985.6	1108.0	1275.1	1338.5
152.5°	957.0	1002.1	1107.1	1249.0	1301.1
155°	988.0	1026.7	1105.6	1215.8	1255.7
157.5°	1020.2	1047.2	1105.9	1192.7	1219.0
160°	1038.4	1060.7	1106.8	1178.1	1196.9
162.5°	1052.8	1071.4	1107.8	1166.5	1180.5
165°	1075.6	1086.2	1110.4	1153.8	1159.7
167.5°	1091.2	1098.5	1110.7	1142.9	1145.7
170°	1100.8	1104.4	1111.6	1138.1	1138.1
172.5°	1108.5	1109.2	1111.6	1132.3	1131.3
175°	1116.4	1115.3	1111.6	1126.0	1123.6
177.5°	1119.1	1116.3	1111.4	1120.9	1118.1
180°	1115.2	1115.2	1115.2	1115.2	1115.2

(END OF REPORT)