

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: P563412

Luminaire Tested: **SQ4-PP3-075U-075D-935-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563412  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2103-172-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PP3-075U-075D-935-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

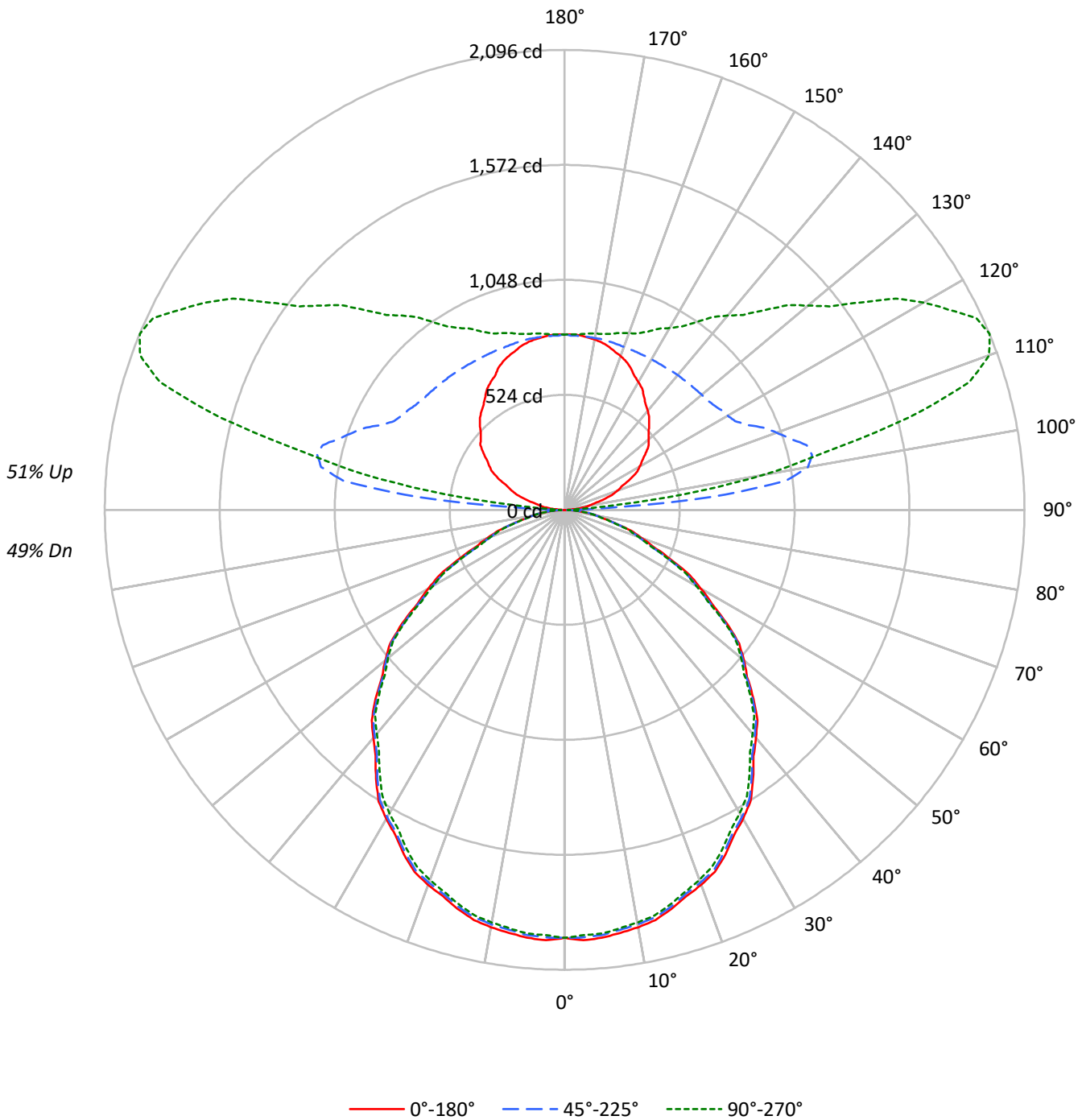
Lumens per Lamp: N/A  
Luminaire Lumens: 10197.4 lumens  
Efficiency: N/A  
Efficacy: 112.1 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 91  
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	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49
1	98	94	90	86	90	86	83	80	73	71	68	61	59	57	49	48	47	42
2	89	82	76	71	82	76	70	66	64	60	57	53	51	48	43	42	40	35
3	81	72	65	59	75	67	60	55	57	52	48	47	44	41	39	36	34	30
4	75	64	56	50	68	59	52	47	50	45	41	42	38	35	35	32	29	26
5	68	57	49	43	63	53	46	40	45	40	35	38	34	30	31	28	26	22
6	63	51	43	37	58	47	40	35	41	35	31	34	30	27	28	25	23	20
7	58	46	38	33	54	43	36	31	37	31	27	31	27	24	26	23	20	18
8	54	42	34	29	50	39	32	27	34	28	24	28	24	21	24	20	18	16
9	50	38	31	26	46	36	29	24	31	25	22	26	22	19	22	19	16	14
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15	13

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

	0°	45°	90°
0°	8999	8999	8999
5°	9065	9010	8978
10°	9050	8986	8946
15°	8990	8941	8892
20°	8930	8880	8813
25°	8824	8763	8676
30°	8661	8615	8506
35°	8434	8376	8271
40°	8165	8113	8020
45°	7942	7885	7808
50°	7656	7607	7533
55°	7260	7164	7109
60°	6610	6420	6388
65°	5822	5580	5561
70°	5027	4819	4819
75°	4328	4267	4205
80°	3815	3860	3770
85°	2985	3255	3255



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	184.5	1.8
10°-20°	526.7	5.2
20°-30°	788.9	7.7
30°-40°	925.4	9.1
40°-50°	928.3	9.1
50°-60°	791.9	7.8
60°-70°	516.4	5.1
70°-80°	259.1	2.5
80°-90°	73.7	0.7
90°-100°	376.7	3.7
100°-110°	1036.3	10.2
110°-120°	1069.6	10.5
120°-130°	857.0	8.4
130°-140°	673.1	6.6
140°-150°	515.8	5.1
150°-160°	370.9	3.6
160°-170°	226.8	2.2
170°-180°	76.4	0.7
0°-30°	1500.1	14.7
0°-40°	2425.5	23.8
0°-60°	4145.6	40.7
0°-90°	4994.9	49.0
90°-120°	2482.6	24.3
90°-150°	4528.5	44.4
90°-180°	5203.0	51.0
0°-180°	10197.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1951	1951	1951	1951	1951	
5°	1958	1939	1946	1939	1939	186
15°	1882	1864	1872	1865	1862	531
25°	1734	1714	1722	1706	1705	797
35°	1498	1483	1487	1470	1469	936
45°	1217	1209	1209	1197	1197	937
55°	903	899	891	886	884	802
65°	533	523	511	508	510	532
75°	243	243	239	238	236	263
85°	56	61	62	62	62	66
90°	2	7	12	15	15	6
95°	56	206	666	285	182	59
105°	185	285	1142	1739	1623	195
115°	328	399	916	1824	2070	324
125°	452	515	831	1406	1646	403
135°	545	605	807	1137	1286	421
145°	630	674	795	968	1043	395
155°	714	737	790	870	896	328
165°	771	781	794	826	831	217
175°	799	800	795	805	804	76
180°	799	799	799	799	799	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1950.7	1950.7	1950.7	1950.7	1950.7
2.5°	1963.1	1947.0	1950.7	1947.8	1939.8
5°	1957.6	1939.2	1945.6	1938.8	1938.8
7.5°	1944.3	1924.2	1930.6	1923.7	1923.4
10°	1931.9	1911.9	1918.3	1911.4	1909.7
12.5°	1914.2	1894.1	1901.9	1893.6	1893.3
15°	1882.4	1864.0	1872.1	1865.2	1861.8
17.5°	1846.5	1826.4	1836.2	1826.6	1825.3
20°	1819.1	1799.0	1808.8	1795.2	1795.2
22.5°	1786.3	1766.2	1777.4	1759.6	1759.6
25°	1733.6	1713.6	1721.7	1706.2	1704.6
27.5°	1671.0	1651.3	1659.8	1642.3	1642.0
30°	1625.9	1607.5	1617.4	1598.5	1596.8
32.5°	1576.7	1559.6	1566.8	1547.9	1546.2
35°	1497.7	1482.6	1487.4	1470.3	1468.6
37.5°	1414.6	1399.2	1404.7	1390.0	1389.3
40°	1355.8	1345.7	1347.2	1335.2	1331.8
42.5°	1301.1	1289.7	1291.2	1279.2	1278.5
45°	1217.3	1208.9	1208.7	1196.8	1196.8
47.5°	1128.4	1122.0	1120.2	1110.3	1109.9
50°	1066.8	1061.8	1060.0	1051.4	1049.7
52.5°	1002.6	1000.2	994.4	987.2	986.8
55°	902.7	899.4	890.7	885.6	883.9
57.5°	794.3	787.6	777.9	770.4	771.8
60°	716.4	709.7	695.8	692.4	692.4
62.5°	641.1	633.1	619.2	614.5	617.2
65°	533.4	523.4	511.2	507.8	509.5
67.5°	435.6	426.6	413.4	413.4	412.0
70°	372.7	367.7	357.3	357.3	357.3
72.5°	316.6	314.3	306.7	306.7	305.3
75°	242.8	242.8	239.4	237.6	235.9
77.5°	181.9	182.6	180.9	179.1	176.1
80°	143.6	147.0	145.3	143.6	141.9
82.5°	108.1	111.4	111.1	108.0	107.7
85°	56.4	61.4	61.5	61.5	61.5
87.5°	15.4	21.7	24.3	25.0	26.3
90°	1.7	6.7	11.9	15.3	15.3
92.5°	23.4	100.2	173.7	66.7	54.7
95°	56.1	205.6	666.1	284.8	181.8
97.5°	91.4	228.0	1016.4	783.2	552.6
100°	117.2	241.8	1126.5	1137.1	927.7
102.5°	141.7	258.3	1155.1	1410.7	1218.6
105°	185.2	284.9	1141.8	1739.0	1622.7
107.5°	226.7	317.7	1076.9	1899.8	1934.3
110°	256.6	339.6	1028.0	1939.7	2059.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	283.8	364.2	979.0	1914.0	2096.1
115°	327.9	399.4	915.8	1823.7	2069.6
117.5°	370.1	435.9	875.7	1697.0	1975.1
120°	395.9	459.0	858.1	1602.0	1889.5
122.5°	419.0	482.1	845.8	1518.8	1791.6
125°	452.0	515.1	830.9	1405.6	1646.5
127.5°	483.2	543.4	821.0	1311.1	1522.4
130°	499.5	561.0	815.6	1255.0	1447.7
132.5°	518.6	580.1	811.5	1205.6	1379.7
135°	545.4	605.2	807.1	1136.7	1286.3
137.5°	570.6	626.1	803.4	1081.1	1204.4
140°	589.6	641.1	802.0	1044.1	1155.4
142.5°	605.9	653.4	799.3	1011.1	1106.5
145°	630.4	673.6	795.2	968.5	1043.3
147.5°	656.6	693.8	793.2	930.8	990.6
150°	672.9	706.1	791.8	910.1	956.6
152.5°	687.8	718.4	790.4	892.2	930.8
155°	713.6	736.9	790.1	870.5	895.5
157.5°	732.3	751.3	790.1	852.7	870.0
160°	745.9	760.9	790.1	843.1	856.4
162.5°	756.8	769.1	791.5	834.9	845.5
165°	771.4	781.4	793.5	825.9	830.9
167.5°	781.6	789.2	795.2	818.3	819.7
170°	788.4	793.4	795.2	815.6	815.6
172.5°	793.8	796.2	795.2	811.5	810.2
175°	798.6	800.3	795.2	805.4	803.7
177.5°	800.0	800.0	794.5	802.6	800.0
180°	798.6	798.6	798.6	798.6	798.6

(END OF REPORT)