

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: P563409

Luminaire Tested: **SQ4-PP3-075U-075D-935-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563409  
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-12  
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: 15296.2 lumens  
Efficiency: N/A  
Efficacy: 114.7 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: General Diffuse

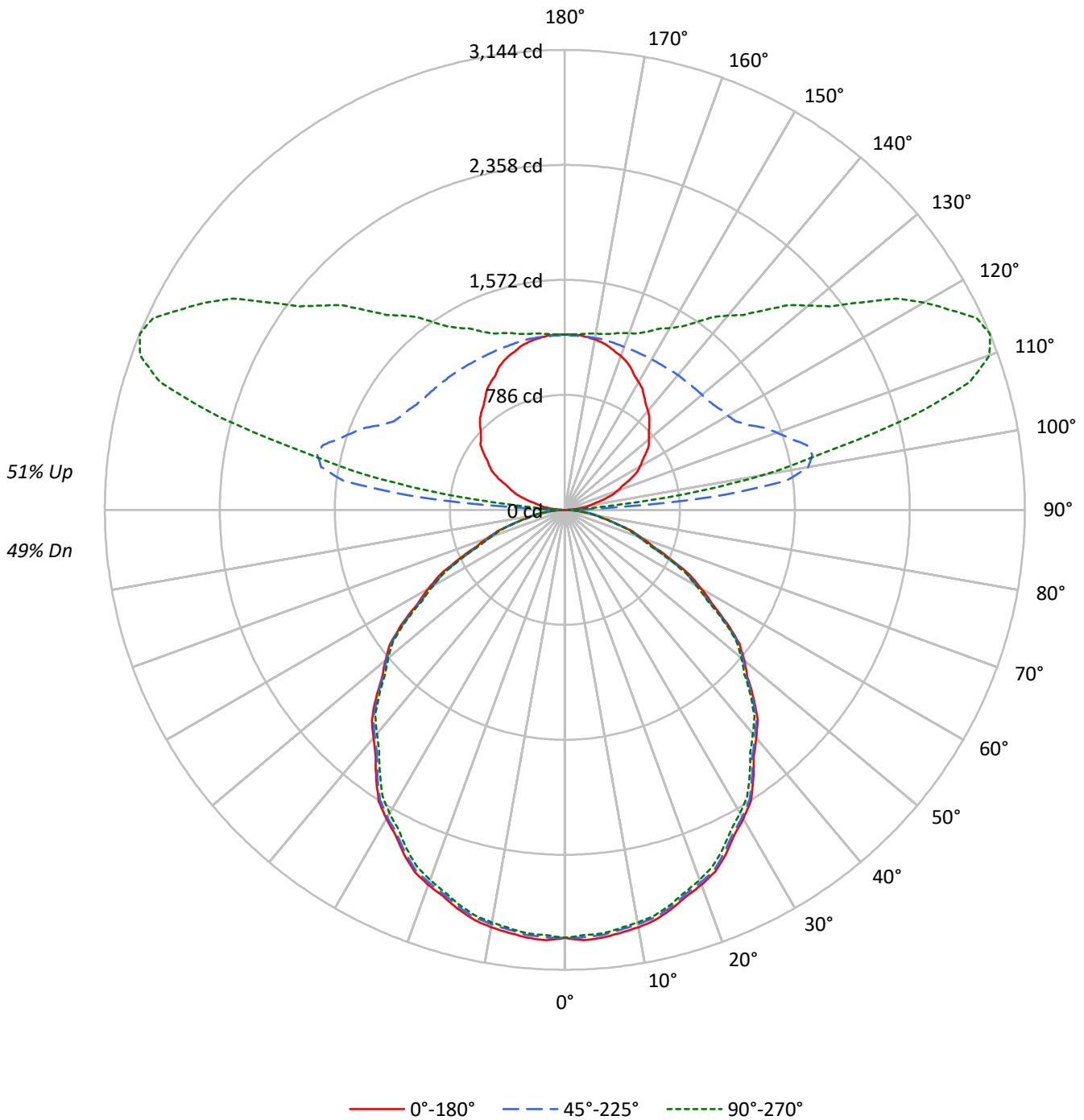
Input Watts (W): 133.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	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°	7941	7886	7808
50°	7657	7607	7534
55°	7260	7164	7109
60°	6609	6420	6388
65°	5822	5580	5561
70°	5027	4820	4820
75°	4328	4266	4205
80°	3815	3861	3771
85°	2985	3257	3257



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	276.7	1.8
10°-20°	790.1	5.2
20°-30°	1183.4	7.7
30°-40°	1388.0	9.1
40°-50°	1392.4	9.1
50°-60°	1187.8	7.8
60°-70°	774.7	5.1
70°-80°	388.6	2.5
80°-90°	110.6	0.7
90°-100°	565.0	3.7
100°-110°	1554.4	10.2
110°-120°	1604.4	10.5
120°-130°	1285.5	8.4
130°-140°	1009.6	6.6
140°-150°	773.7	5.1
150°-160°	556.3	3.6
160°-170°	340.2	2.2
170°-180°	114.7	0.7
0°-30°	2250.1	14.7
0°-40°	3638.2	23.8
0°-60°	6218.4	40.7
0°-90°	7492.3	49.0
90°-120°	3723.8	24.3
90°-150°	6792.7	44.4
90°-180°	7804.0	51.0
0°-180°	15296.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2926	2926	2926	2926	2926	
5°	2936	2909	2918	2908	2908	279
15°	2824	2796	2808	2798	2793	797
25°	2600	2570	2582	2559	2557	1196
35°	2246	2224	2231	2205	2203	1403
45°	1826	1813	1813	1795	1795	1406
55°	1354	1349	1336	1328	1326	1203
65°	800	785	767	762	764	799
75°	364	364	359	356	354	395
85°	85	92	92	92	92	99
90°	2	10	18	23	23	9
95°	84	308	999	427	273	89
105°	278	427	1713	2608	2434	293
115°	492	599	1374	2736	3104	485
125°	678	773	1246	2108	2470	605
135°	818	908	1211	1705	1929	631
145°	946	1010	1193	1453	1565	593
155°	1070	1105	1185	1306	1343	492
165°	1157	1172	1190	1239	1246	326
175°	1198	1200	1193	1208	1206	114
180°	1198	1198	1198	1198	1198	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2926.1	2926.1	2926.1	2926.1	2926.1
2.5°	2944.6	2920.5	2926.1	2921.7	2909.7
5°	2936.4	2908.8	2918.4	2908.2	2908.2
7.5°	2916.4	2886.3	2895.9	2885.6	2885.1
10°	2897.9	2867.8	2877.4	2867.1	2864.6
12.5°	2871.2	2841.2	2852.8	2840.5	2840.0
15°	2823.5	2796.0	2808.2	2797.8	2792.8
17.5°	2769.7	2739.6	2754.3	2739.9	2737.9
20°	2728.7	2698.6	2713.3	2692.8	2692.8
22.5°	2679.4	2649.3	2666.1	2639.4	2639.4
25°	2600.4	2570.3	2582.5	2559.3	2556.8
27.5°	2506.6	2477.0	2489.6	2463.5	2463.0
30°	2438.9	2411.3	2426.0	2397.8	2395.3
32.5°	2365.0	2339.4	2350.1	2321.9	2319.4
35°	2246.5	2224.0	2231.1	2205.4	2202.9
37.5°	2121.9	2098.8	2107.0	2084.9	2083.9
40°	2033.7	2018.6	2020.8	2002.8	1997.8
42.5°	1951.6	1934.6	1936.7	1918.8	1917.8
45°	1825.9	1813.4	1813.1	1795.2	1795.2
47.5°	1692.6	1683.1	1680.3	1665.4	1664.9
50°	1600.3	1592.7	1590.0	1577.1	1574.6
52.5°	1503.8	1500.3	1491.5	1480.7	1480.2
55°	1354.1	1349.1	1336.1	1328.4	1325.9
57.5°	1191.5	1181.4	1166.9	1155.6	1157.6
60°	1074.5	1064.5	1043.8	1038.6	1038.6
62.5°	961.7	949.7	928.9	921.8	925.8
65°	800.1	785.1	766.8	761.7	764.2
67.5°	653.4	639.9	620.1	620.1	618.1
70°	559.1	551.5	536.0	536.0	536.0
72.5°	475.0	471.4	460.1	460.0	458.0
75°	364.2	364.2	359.0	356.4	353.9
77.5°	272.9	273.9	271.3	268.7	264.1
80°	215.4	220.4	218.0	215.4	212.9
82.5°	162.1	167.1	166.7	162.1	161.6
85°	84.6	92.2	92.3	92.3	92.3
87.5°	23.1	32.6	36.4	37.5	39.5
90°	2.5	10.0	17.8	22.9	22.9
92.5°	35.2	150.3	260.5	100.0	82.1
95°	84.1	308.4	999.1	427.2	272.7
97.5°	137.1	342.0	1524.6	1174.7	828.8
100°	175.9	362.8	1689.8	1705.6	1391.6
102.5°	212.6	387.5	1732.6	2116.0	1827.9
105°	277.8	427.3	1712.7	2608.5	2434.0
107.5°	340.0	476.6	1615.4	2849.6	2901.5
110°	384.9	509.5	1542.0	2909.6	3089.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	425.6	546.3	1468.6	2871.0	3144.1
115°	491.9	599.1	1373.8	2735.5	3104.3
117.5°	555.1	653.8	1313.6	2545.5	2962.6
120°	593.9	688.6	1287.1	2403.0	2834.2
122.5°	628.5	723.2	1268.8	2278.2	2687.4
125°	678.0	772.7	1246.3	2108.4	2469.7
127.5°	724.9	815.1	1231.5	1966.7	2283.7
130°	749.3	841.5	1223.4	1882.4	2171.5
132.5°	777.9	870.1	1217.3	1808.4	2069.6
135°	818.1	907.9	1210.6	1705.1	1929.4
137.5°	855.9	939.1	1205.0	1621.6	1806.5
140°	884.4	961.7	1203.0	1566.2	1733.1
142.5°	908.9	980.1	1198.9	1516.7	1659.7
145°	945.6	1010.4	1192.8	1452.8	1564.9
147.5°	984.8	1040.6	1189.7	1396.2	1485.9
150°	1009.3	1059.1	1187.7	1365.2	1434.9
152.5°	1031.7	1077.6	1185.7	1338.4	1396.2
155°	1070.5	1105.4	1185.2	1305.8	1343.2
157.5°	1098.5	1126.9	1185.2	1279.0	1304.9
160°	1118.9	1141.3	1185.2	1264.6	1284.6
162.5°	1135.2	1153.6	1187.2	1252.3	1268.2
165°	1157.1	1172.1	1190.3	1238.8	1246.3
167.5°	1172.4	1183.9	1192.8	1227.5	1229.5
170°	1182.6	1190.1	1192.8	1223.4	1223.4
172.5°	1190.8	1194.3	1192.8	1217.2	1215.2
175°	1197.9	1200.4	1192.8	1208.0	1205.5
177.5°	1199.9	1199.9	1191.8	1203.9	1199.9
180°	1197.9	1197.9	1197.9	1197.9	1197.9

(END OF REPORT)