

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: P564516

Luminaire Tested: **SQ4-PR1-150U-125D-935-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564516  
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-125D-935-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

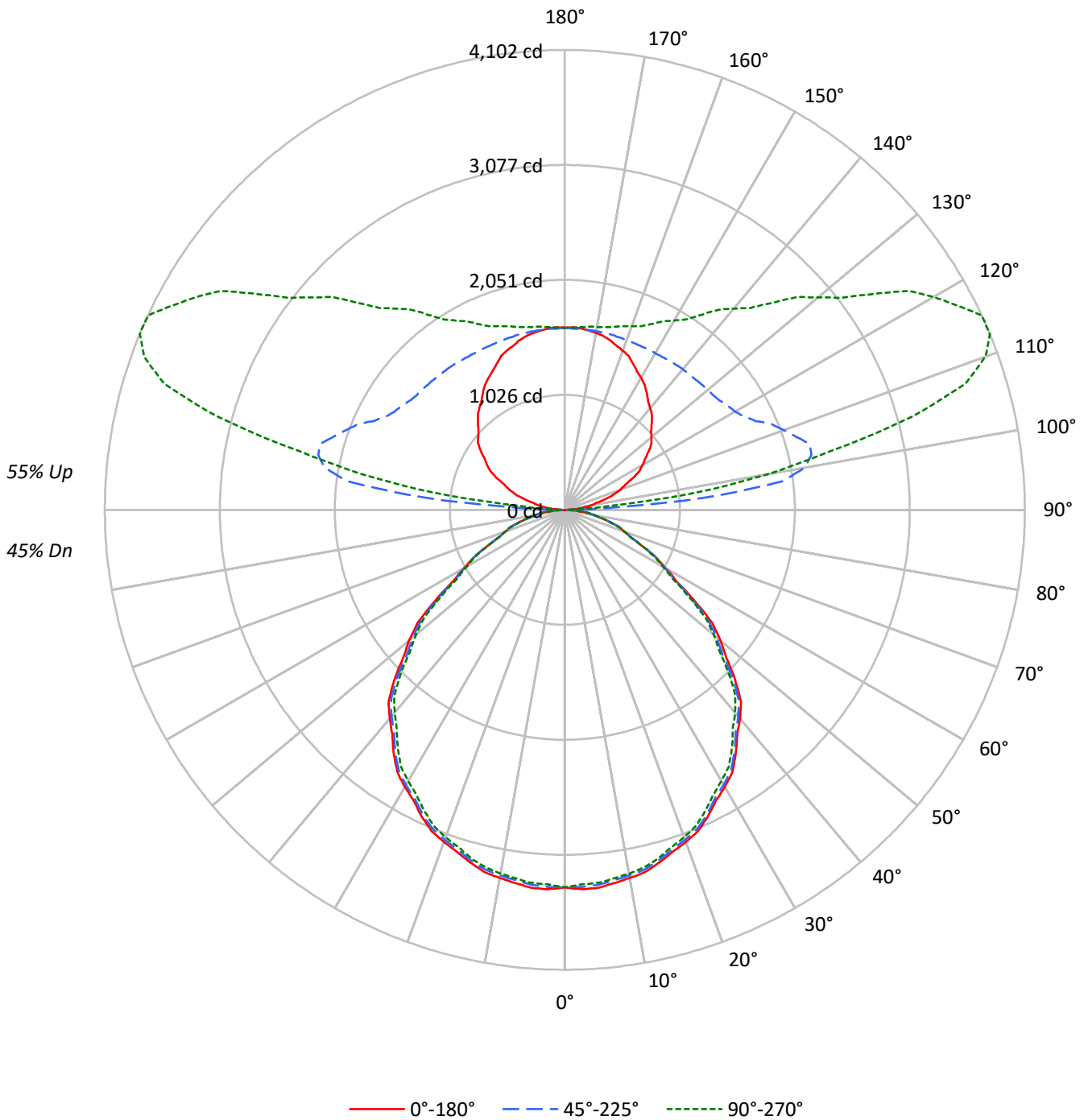
Lumens per Lamp: N/A  
Luminaire Lumens: 18887.5 lumens  
Efficiency: N/A  
Efficacy: 112.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 167.8  
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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	45
1	97	93	89	85	89	85	82	79	71	68	66	58	56	55	46	45	44	38
2	88	81	75	70	81	75	69	65	62	59	55	51	48	46	40	39	37	32
3	81	72	64	59	74	66	60	55	55	51	47	45	42	39	36	34	32	28
4	74	63	56	50	68	58	52	47	49	44	40	40	37	34	32	30	28	24
5	68	57	49	43	62	52	45	40	44	39	35	36	32	29	29	26	24	21
6	63	51	43	37	57	47	40	35	40	34	30	33	29	26	27	24	21	18
7	58	46	38	33	53	42	35	31	36	31	27	30	26	23	24	21	19	16
8	54	42	34	29	49	39	32	27	33	27	24	27	23	20	22	19	17	15
9	50	38	31	26	46	35	29	24	30	25	21	25	21	18	21	18	15	13
10	47	35	28	23	43	32	26	22	28	23	19	23	19	17	19	16	14	12

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

	0°	45°	90°
0°	15530	15530	15530
5°	15670	15549	15468
10°	15620	15511	15430
15°	15552	15455	15371
20°	15473	15374	15260
25°	15364	15261	15084
30°	15198	15090	14874
35°	14974	14844	14631
40°	14633	14476	14214
45°	14036	13790	13506
50°	12986	12673	12424
55°	11334	11077	10844
60°	9551	9471	9283
65°	8261	8293	8229
70°	7587	7626	7626
75°	7286	7286	7338
80°	6857	6934	6857
85°	5526	6140	6140



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	318.4	1.7
10°-20°	910.8	4.8
20°-30°	1373.8	7.3
30°-40°	1636.9	8.7
40°-50°	1613.8	8.5
50°-60°	1233.4	6.5
60°-70°	763.3	4.0
70°-80°	433.5	2.3
80°-90°	135.3	0.7
90°-100°	754.6	4.0
100°-110°	2040.2	10.8
110°-120°	2145.0	11.4
120°-130°	1742.3	9.2
130°-140°	1366.7	7.2
140°-150°	1049.0	5.6
150°-160°	754.4	4.0
160°-170°	460.8	2.4
170°-180°	155.4	0.8
0°-30°	2603.0	13.8
0°-40°	4239.9	22.4
0°-60°	7087.1	37.5
0°-90°	8419.2	44.6
90°-120°	4939.8	26.2
90°-150°	9097.7	48.2
90°-180°	10468.0	55.4
0°-180°	18887.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3366	3366	3366	3366	3366	
5°	3384	3347	3358	3346	3340	321
15°	3256	3222	3236	3224	3219	919
25°	3018	2982	2998	2966	2963	1389
35°	2659	2628	2636	2601	2598	1660
45°	2152	2123	2114	2076	2070	1648
55°	1409	1386	1377	1354	1348	1263
65°	757	751	760	754	754	767
75°	409	409	409	412	412	432
85°	104	110	116	116	116	121
90°	4	10	23	24	23	12
95°	117	411	1255	649	386	123
105°	379	586	2263	3339	3202	399
115°	668	816	1877	3634	4102	659
125°	914	1047	1692	2855	3354	815
135°	1096	1226	1646	2305	2609	847
145°	1274	1370	1624	1973	2124	797
155°	1438	1495	1610	1770	1828	663
165°	1566	1581	1617	1680	1688	441
175°	1625	1624	1618	1639	1636	154
180°	1624	1624	1624	1624	1624	

TEST NUMBER: P564516

CATALOG NUMBER: SQ4-PR1-150U-125D-935-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3366.5	3366.5	3366.5	3366.5	3366.5
2.5°	3387.3	3357.9	3366.5	3359.1	3343.3
5°	3383.9	3347.0	3357.8	3346.0	3340.4
7.5°	3357.8	3321.5	3332.2	3320.6	3317.2
10°	3334.6	3300.5	3311.4	3299.6	3294.0
12.5°	3309.1	3272.8	3285.9	3271.8	3266.1
15°	3256.3	3222.3	3236.0	3224.3	3218.6
17.5°	3198.3	3162.0	3175.7	3162.2	3154.8
20°	3151.9	3117.9	3131.6	3111.2	3108.4
22.5°	3100.9	3066.8	3080.6	3053.3	3052.7
25°	3018.5	2981.7	2998.2	2966.3	2963.4
27.5°	2920.5	2886.5	2900.2	2867.7	2864.2
30°	2853.2	2819.2	2832.9	2798.0	2792.3
32.5°	2776.7	2744.9	2756.4	2721.5	2718.1
35°	2659.0	2627.8	2635.8	2600.9	2598.1
37.5°	2525.0	2496.6	2501.2	2462.9	2460.0
40°	2429.9	2401.5	2403.8	2363.1	2360.3
42.5°	2325.5	2297.1	2294.8	2254.1	2251.3
45°	2151.5	2123.2	2113.8	2076.0	2070.3
47.5°	1953.2	1924.8	1907.4	1876.5	1872.6
50°	1809.4	1781.0	1765.9	1739.6	1731.1
52.5°	1653.9	1625.6	1612.8	1588.8	1580.3
55°	1409.2	1386.5	1377.3	1354.0	1348.3
57.5°	1176.7	1161.4	1158.7	1136.0	1133.8
60°	1035.2	1026.7	1026.5	1006.2	1006.2
62.5°	914.5	908.3	912.8	899.4	897.1
65°	756.8	751.1	759.7	753.9	753.9
67.5°	632.1	632.1	637.3	635.0	635.0
70°	562.5	562.5	565.4	565.4	565.4
72.5°	499.9	497.6	505.1	505.1	502.8
75°	408.8	408.8	408.8	411.7	411.7
77.5°	318.4	318.9	321.3	320.6	318.4
80°	258.1	260.9	261.0	258.1	258.1
82.5°	197.8	200.6	200.7	200.0	197.8
85°	104.4	110.1	116.0	116.0	116.0
87.5°	30.9	41.3	50.9	51.2	48.6
90°	3.5	10.3	22.7	24.4	22.7
92.5°	49.6	180.9	356.9	154.9	112.2
95°	117.1	411.0	1254.9	649.4	386.3
97.5°	188.1	471.4	1956.1	1618.8	1188.8
100°	241.2	495.8	2174.2	2267.5	1833.4
102.5°	290.1	529.7	2251.1	2759.3	2434.6
105°	379.3	586.0	2263.3	3338.6	3201.9
107.5°	461.8	650.4	2164.4	3700.0	3745.4
110°	526.1	697.0	2076.3	3797.0	3990.1



TEST NUMBER: P564516

CATALOG NUMBER: SQ4-PR1-150U-125D-935-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	583.4	743.4	1995.2	3777.6	4102.0
115°	667.6	816.3	1877.1	3633.7	4102.0
117.5°	750.1	889.6	1799.1	3413.9	3944.7
120°	800.5	937.2	1753.0	3256.1	3797.9
122.5°	848.0	982.0	1725.0	3087.0	3632.9
125°	914.1	1047.4	1691.8	2854.9	3353.9
127.5°	974.9	1105.8	1672.2	2665.5	3104.4
130°	1008.5	1143.5	1663.9	2548.5	2945.0
132.5°	1043.4	1177.0	1655.5	2442.9	2807.9
135°	1095.8	1225.7	1646.4	2305.2	2609.4
137.5°	1148.6	1271.3	1638.7	2193.5	2441.3
140°	1185.0	1299.5	1635.9	2121.5	2342.0
142.5°	1219.9	1327.6	1630.3	2056.6	2249.7
145°	1274.1	1369.8	1623.7	1973.1	2123.5
147.5°	1323.4	1408.2	1616.0	1897.5	2013.1
150°	1359.7	1434.9	1613.2	1856.5	1948.7
152.5°	1393.3	1458.9	1611.8	1818.3	1894.2
155°	1438.4	1494.8	1609.7	1770.0	1828.1
157.5°	1485.2	1524.5	1610.0	1736.4	1774.7
160°	1511.8	1544.3	1611.4	1715.2	1742.5
162.5°	1532.8	1559.8	1612.8	1698.2	1718.7
165°	1566.0	1581.4	1616.7	1679.8	1688.3
167.5°	1588.7	1599.3	1617.0	1664.0	1668.1
170°	1602.7	1607.8	1618.4	1656.9	1656.9
172.5°	1613.9	1614.9	1618.4	1648.4	1647.1
175°	1625.4	1623.7	1618.4	1639.3	1635.9
177.5°	1629.3	1625.2	1618.1	1632.0	1627.9
180°	1623.7	1623.7	1623.7	1623.7	1623.7

(END OF REPORT)