

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: P563093

Luminaire Tested: **SQ4-PC3-150U-050D-930-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563093  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2106-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PC3-150U-050D-930-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 500 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: 19083.5 lumens  
Efficiency: N/A  
Efficacy: 113.0 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: Semi-Indirect

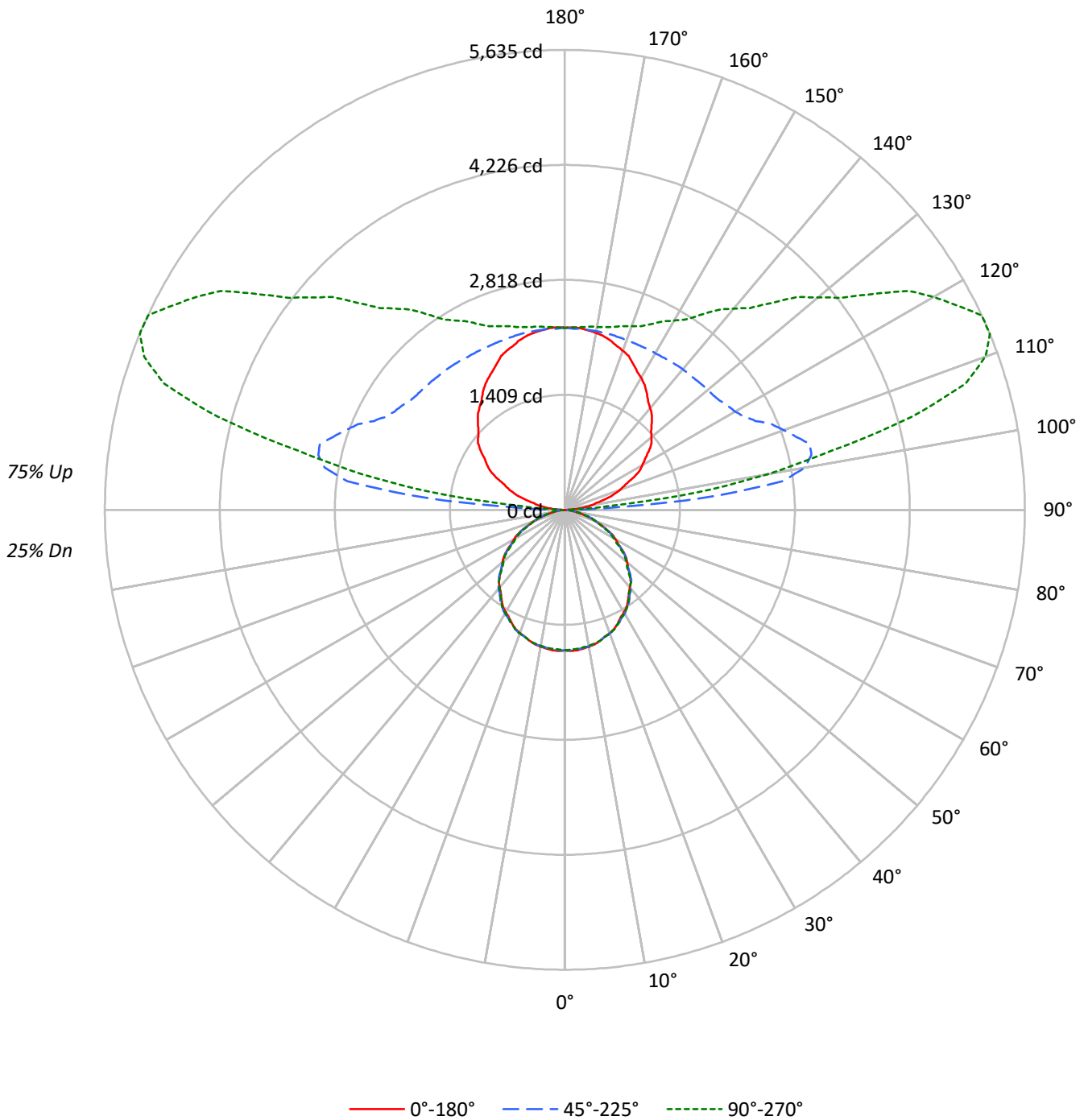
Input Watts (W): 168.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	101	101	101	101	90	90	90	90	69	69	69	50	50	50	33	33	33	25
1	92	88	84	81	82	78	75	73	61	59	57	44	43	42	29	28	28	21
2	84	77	71	66	74	69	64	59	53	50	47	39	37	35	26	24	23	17
3	76	67	60	55	68	60	54	50	47	43	39	34	32	29	23	21	20	15
4	70	59	52	46	62	53	47	42	41	37	33	30	27	25	20	18	17	13
5	64	53	45	39	57	47	41	36	37	32	29	27	24	22	18	16	15	11
6	59	47	39	34	52	42	36	31	33	28	25	24	21	19	16	14	13	10
7	54	42	35	29	48	38	31	27	30	25	22	22	19	16	15	13	11	8
8	50	38	31	26	44	34	28	24	27	22	19	20	17	15	14	12	10	8
9	47	35	28	23	41	31	25	21	25	20	17	18	15	13	13	11	9	7
10	43	32	25	20	39	29	23	19	23	18	15	17	14	12	12	10	8	6

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

	0°	45°	90°
0°	5294	5294	5294
5°	5334	5299	5280
10°	5321	5296	5281
15°	5293	5293	5288
20°	5258	5274	5274
25°	5208	5246	5230
30°	5145	5207	5185
35°	5068	5146	5110
40°	4985	5055	5004
45°	4894	4929	4852
50°	4766	4766	4690
55°	4615	4555	4487
60°	4392	4304	4235
65°	4060	3978	3943
70°	3554	3583	3569
75°	2860	3163	3182
80°	2033	2681	2710
85°	1239	2251	2251



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	162.9	0.9
10°-20°	467.5	2.4
20°-30°	708.0	3.7
30°-40°	848.8	4.4
40°-50°	865.5	4.5
50°-60°	755.5	4.0
60°-70°	540.9	2.8
70°-80°	278.6	1.5
80°-90°	75.1	0.4
90°-100°	1036.6	5.4
100°-110°	2802.7	14.7
110°-120°	2946.7	15.4
120°-130°	2393.5	12.5
130°-140°	1877.5	9.8
140°-150°	1441.0	7.6
150°-160°	1036.3	5.4
160°-170°	633.1	3.3
170°-180°	213.4	1.1
0°-30°	1338.4	7.0
0°-40°	2187.2	11.5
0°-60°	3808.2	20.0
0°-90°	4702.7	24.6
90°-120°	6786.0	35.6
90°-150°	12497.9	65.5
90°-180°	14381.0	75.4
0°-180°	19083.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1721	1721	1721	1721	1721	
5°	1728	1711	1717	1712	1710	164
15°	1662	1648	1662	1662	1661	469
25°	1535	1524	1546	1541	1541	706
35°	1350	1347	1371	1361	1361	844
45°	1125	1122	1133	1119	1116	866
55°	861	850	850	837	837	767
65°	558	545	547	542	542	552
75°	241	252	266	268	268	260
85°	35	54	64	65	64	48
90°	5	14	31	34	31	12
95°	161	565	1724	892	531	168
105°	521	805	3109	4586	4398	549
115°	917	1121	2579	4992	5635	906
125°	1256	1439	2324	3922	4607	1119
135°	1505	1684	2262	3167	3585	1163
145°	1750	1882	2230	2711	2917	1095
155°	1976	2054	2211	2432	2511	911
165°	2151	2172	2221	2308	2319	606
175°	2233	2230	2223	2252	2247	212
180°	2230	2230	2230	2230	2230	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1721.4	1721.4	1721.4	1721.4	1721.4
2.5°	1731.6	1716.6	1721.4	1717.4	1711.2
5°	1727.8	1710.6	1716.6	1711.8	1710.2
7.5°	1715.4	1698.2	1706.1	1702.9	1701.3
10°	1703.9	1686.7	1695.9	1692.7	1691.1
12.5°	1688.6	1672.7	1683.2	1680.0	1679.6
15°	1662.4	1648.4	1662.4	1662.4	1660.8
17.5°	1629.6	1616.8	1631.8	1632.8	1631.8
20°	1606.6	1592.6	1611.4	1609.9	1611.4
22.5°	1578.6	1567.1	1587.2	1583.1	1584.7
25°	1534.9	1524.0	1546.1	1541.3	1541.3
27.5°	1483.3	1475.5	1499.5	1494.4	1494.4
30°	1448.9	1441.1	1466.4	1460.0	1460.0
32.5°	1410.6	1405.3	1429.4	1421.8	1421.8
35°	1350.0	1346.9	1370.7	1361.2	1361.2
37.5°	1287.5	1284.7	1306.4	1294.8	1291.1
40°	1241.6	1240.1	1259.2	1246.4	1246.4
42.5°	1195.7	1194.2	1210.7	1195.4	1195.4
45°	1125.3	1122.2	1133.3	1118.8	1115.7
47.5°	1048.5	1045.3	1052.3	1036.6	1035.1
50°	996.2	993.1	996.2	981.8	980.2
52.5°	942.6	937.0	937.5	923.2	922.9
55°	860.7	849.8	849.5	836.8	836.8
57.5°	774.0	759.7	760.9	750.1	748.5
60°	714.1	698.5	699.7	690.1	688.6
62.5°	655.4	637.3	641.1	630.2	629.9
65°	557.9	545.4	546.7	541.9	541.9
67.5°	464.1	452.6	461.0	457.1	456.8
70°	395.3	387.5	398.5	398.4	396.9
72.5°	331.5	331.2	344.9	344.9	345.9
75°	240.7	251.6	266.2	267.8	267.8
77.5°	160.7	180.0	196.0	196.7	196.4
80°	114.8	136.6	151.4	154.6	153.0
82.5°	77.8	100.8	113.2	116.3	114.8
85°	35.1	53.8	63.8	65.3	63.8
87.5°	11.2	24.3	31.7	32.2	29.2
90°	4.8	14.2	31.2	33.6	31.2
92.5°	68.2	248.5	490.3	212.8	154.1
95°	160.9	564.7	1723.9	892.1	530.6
97.5°	258.3	647.6	2687.1	2223.8	1633.1
100°	331.3	681.1	2986.8	3114.9	2518.6
102.5°	398.6	727.7	3092.4	3790.6	3344.5
105°	521.0	805.1	3109.2	4586.4	4398.5
107.5°	634.3	893.5	2973.3	5082.8	5145.2
110°	722.7	957.4	2852.3	5216.1	5481.4

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	801.4	1021.2	2740.9	5189.5	5635.0
115°	917.2	1121.4	2578.6	4991.8	5635.0
117.5°	1030.5	1222.1	2471.5	4689.8	5419.0
120°	1099.6	1287.4	2408.2	4473.1	5217.3
122.5°	1164.9	1349.0	2369.7	4240.8	4990.6
125°	1255.7	1438.8	2324.1	3921.9	4607.4
127.5°	1339.3	1519.1	2297.2	3661.7	4264.6
130°	1385.4	1570.8	2285.7	3501.0	4045.6
132.5°	1433.4	1617.0	2274.2	3355.9	3857.4
135°	1505.4	1683.8	2261.7	3166.8	3584.6
137.5°	1577.9	1746.5	2251.1	3013.2	3353.7
140°	1627.8	1785.1	2247.3	2914.4	3217.3
142.5°	1675.9	1823.8	2239.6	2825.2	3090.5
145°	1750.3	1881.8	2230.5	2710.6	2917.2
147.5°	1818.0	1934.4	2219.9	2606.7	2765.4
150°	1867.9	1971.2	2216.1	2550.3	2677.1
152.5°	1914.0	2004.2	2214.2	2497.9	2602.2
155°	1976.0	2053.5	2211.3	2431.6	2511.4
157.5°	2040.3	2094.3	2211.8	2385.3	2437.9
160°	2076.8	2121.4	2213.7	2356.2	2393.8
162.5°	2105.6	2142.7	2215.6	2332.9	2361.1
165°	2151.3	2172.4	2220.9	2307.6	2319.3
167.5°	2182.5	2197.0	2221.4	2285.8	2291.5
170°	2201.7	2208.7	2223.3	2276.1	2276.1
172.5°	2217.0	2218.4	2223.3	2264.5	2262.7
175°	2232.9	2230.5	2223.3	2252.0	2247.3
177.5°	2238.2	2232.5	2222.8	2241.9	2236.2
180°	2230.5	2230.5	2230.5	2230.5	2230.5

(END OF REPORT)