

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: P563767

Luminaire Tested: **SQ4-PP3-150U-050D-930-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563767  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, 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-PP3-150U-050D-930-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

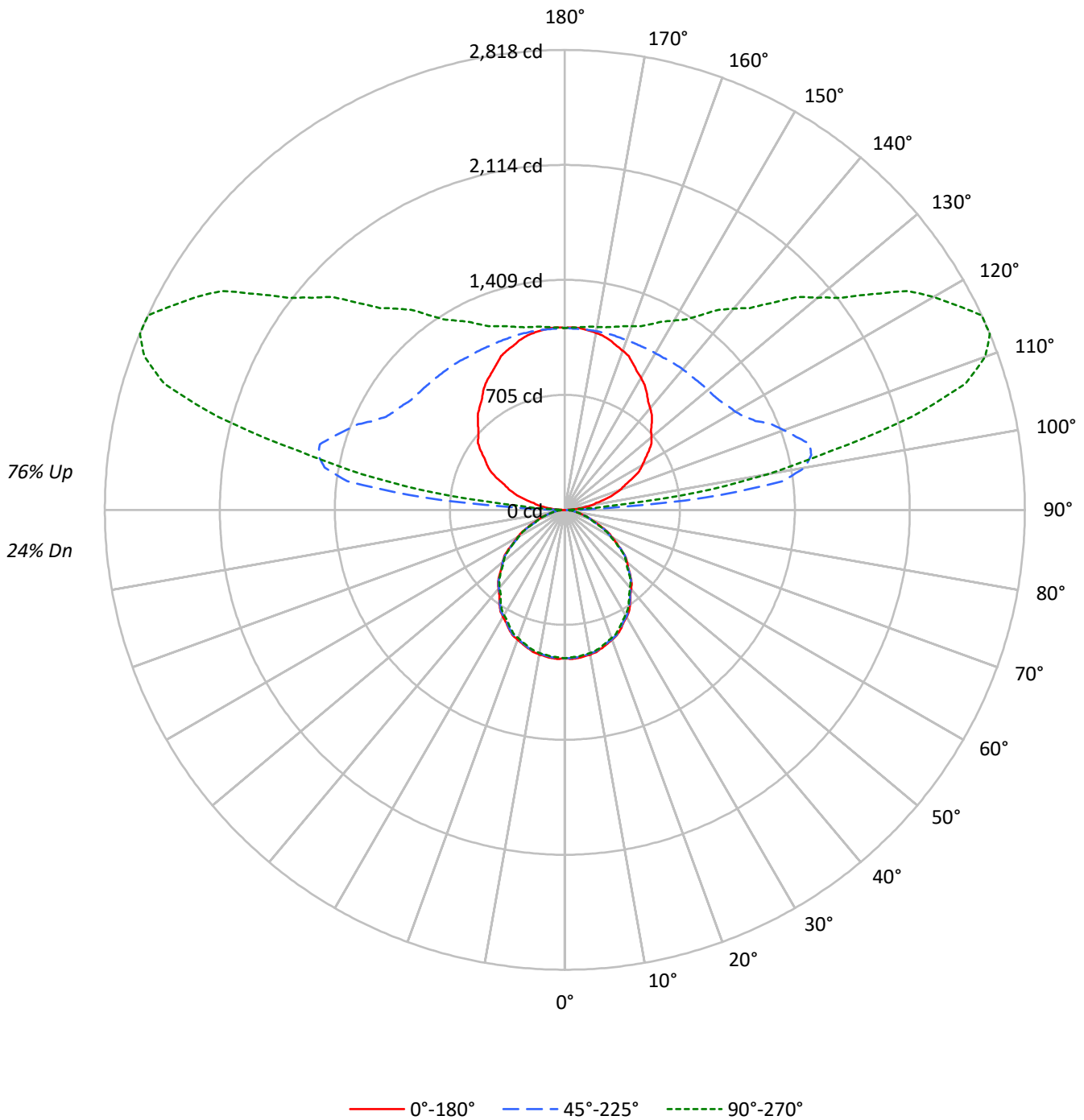
Lumens per Lamp: N/A  
Luminaire Lumens: 9519.5 lumens  
Efficiency: N/A  
Efficacy: 113.2 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 84.1  
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



TEST NUMBER: P563767  
CATALOG NUMBER: SQ4-PP3-150U-050D-930-1D-UNV-STD-W-6

### Luminous Intensity Polar Plot





TEST NUMBER: P563767

CATALOG NUMBER: SQ4-PP3-150U-050D-930-1D-UNV-STD-W-6

**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	101	101	101	101	90	90	90	90	69	69	69	50	50	50	33	33	33	24				
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	60	53	50	47	39	37	35	26	24	23	18				
3	77	68	61	55	68	60	55	50	47	43	40	34	32	30	23	21	20	15				
4	70	60	52	46	62	53	47	42	42	37	34	31	28	25	20	19	17	13				
5	64	53	45	40	57	48	41	36	37	32	29	27	24	22	18	16	15	11				
6	59	47	40	34	52	43	36	31	33	29	25	25	21	19	17	15	13	10				
7	54	43	35	30	48	38	32	27	30	25	22	22	19	17	15	13	12	9				
8	50	39	31	26	45	35	28	24	27	23	19	20	17	15	14	12	10	8				
9	47	35	28	23	42	32	25	21	25	20	17	19	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°	5592	5592	5592
5°	5633	5598	5578
10°	5623	5584	5559
15°	5586	5556	5525
20°	5549	5518	5476
25°	5483	5445	5391
30°	5381	5353	5286
35°	5241	5205	5139
40°	5073	5041	4984
45°	4935	4900	4851
50°	4758	4727	4681
55°	4511	4451	4417
60°	4106	3989	3970
65°	3618	3467	3455
70°	3124	2994	2994
75°	2688	2650	2614
80°	2370	2398	2341
85°	1856	2025	2025



TEST NUMBER: P563767

CATALOG NUMBER: SQ4-PP3-150U-050D-930-1D-UNV-STD-W-6

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.0	0.9
10°-20°	245.5	2.6
20°-30°	367.7	3.9
30°-40°	431.2	4.5
40°-50°	432.6	4.5
50°-60°	369.0	3.9
60°-70°	240.7	2.5
70°-80°	120.7	1.3
80°-90°	35.7	0.4
90°-100°	518.3	5.4
100°-110°	1401.4	14.7
110°-120°	1473.3	15.5
120°-130°	1196.7	12.6
130°-140°	938.7	9.9
140°-150°	720.5	7.6
150°-160°	518.2	5.4
160°-170°	316.5	3.3
170°-180°	106.7	1.1
0°-30°	699.1	7.3
0°-40°	1130.3	11.9
0°-60°	1931.9	20.3
0°-90°	2329.1	24.5
90°-120°	3393.0	35.6
90°-150°	6249.0	65.6
90°-180°	7190.0	75.5
0°-180°	9519.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	909	909	909	909	909	
5°	912	904	907	904	904	87
15°	877	869	872	869	868	247
25°	808	799	802	795	794	372
35°	698	691	693	685	684	436
45°	567	563	563	558	558	437
55°	421	419	415	413	412	374
65°	249	244	238	237	237	248
75°	113	113	112	111	110	123
85°	26	29	29	29	29	31
90°	2	7	16	17	16	6
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	

TEST NUMBER: P563767

CATALOG NUMBER: SQ4-PP3-150U-050D-930-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	909.1	909.1	909.1	909.1	909.1
2.5°	914.8	907.4	909.1	907.7	904.0
5°	912.3	903.7	906.7	903.5	903.5
7.5°	906.1	896.7	899.7	896.5	896.4
10°	900.3	891.0	894.0	890.8	890.0
12.5°	892.1	882.7	886.3	882.5	882.3
15°	877.2	868.7	872.5	869.2	867.7
17.5°	860.5	851.2	855.7	851.2	850.6
20°	847.8	838.4	843.0	836.6	836.6
22.5°	832.5	823.1	828.3	820.0	820.0
25°	807.9	798.6	802.3	795.1	794.4
27.5°	778.8	769.6	773.5	765.4	765.2
30°	757.7	749.1	753.7	745.0	744.2
32.5°	734.8	726.8	730.1	721.4	720.6
35°	698.0	690.9	693.2	685.2	684.4
37.5°	659.2	652.1	654.6	647.8	647.4
40°	631.8	627.2	627.8	622.2	620.7
42.5°	606.3	601.0	601.7	596.1	595.8
45°	567.3	563.4	563.3	557.7	557.7
47.5°	525.9	522.9	522.0	517.4	517.3
50°	497.2	494.8	494.0	490.0	489.2
52.5°	467.2	466.1	463.4	460.0	459.9
55°	420.7	419.1	415.1	412.7	411.9
57.5°	370.2	367.1	362.5	359.0	359.7
60°	333.8	330.7	324.3	322.7	322.7
62.5°	298.8	295.0	288.6	286.4	287.6
65°	248.6	243.9	238.2	236.7	237.4
67.5°	203.0	198.8	192.7	192.6	192.0
70°	173.7	171.4	166.5	166.5	166.5
72.5°	147.6	146.5	142.9	142.9	142.3
75°	113.1	113.1	111.5	110.7	110.0
77.5°	84.8	85.1	84.3	83.5	82.1
80°	66.9	68.5	67.7	66.9	66.1
82.5°	50.4	51.9	51.8	50.4	50.2
85°	26.3	28.6	28.7	28.7	28.7
87.5°	7.5	10.9	13.3	13.6	14.0
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



TEST NUMBER: P563767

CATALOG NUMBER: SQ4-PP3-150U-050D-930-1D-UNV-STD-W-6

**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)