

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: P565111

Luminaire Tested: **SQ4-PW1-150U-050D-930-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P565111  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2106-289-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PW1-150U-050D-930-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

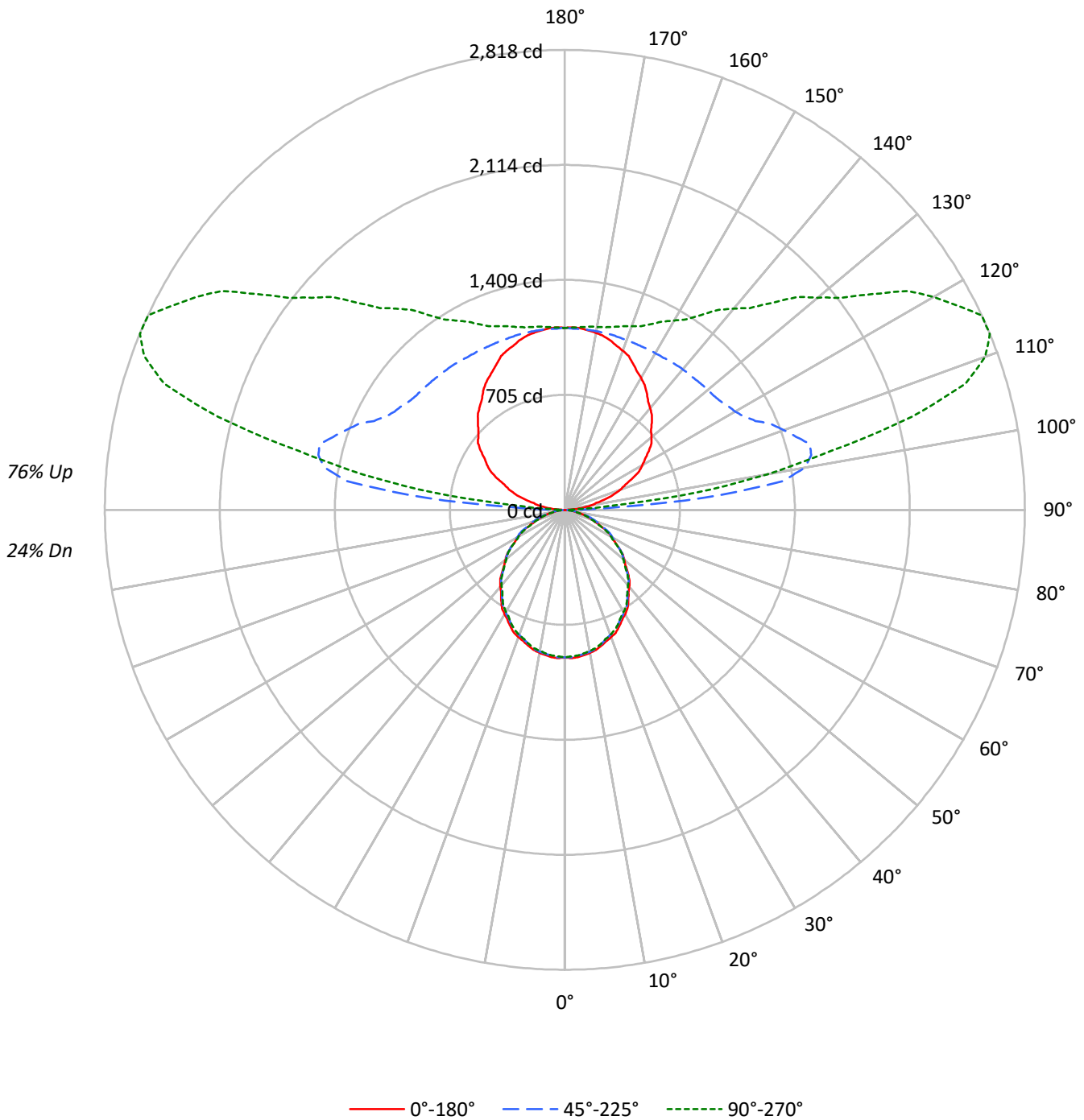
Lumens per Lamp: N/A  
Luminaire Lumens: 9494.1 lumens  
Efficiency: N/A  
Efficacy: 112.9 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Indirect

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



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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	32	32	32	24
1	92	88	84	81	82	78	75	72	60	58	57	44	43	42	29	28	27	21
2	84	77	71	66	74	68	64	59	53	50	47	39	37	35	25	24	23	17
3	76	67	60	55	68	60	54	50	47	43	39	34	32	29	22	21	20	15
4	70	60	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	40	34	52	42	36	31	33	28	25	24	21	19	16	14	13	10
7	54	43	35	30	48	38	32	27	30	25	22	22	19	17	15	13	11	9
8	50	38	31	26	45	35	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°	5563	5563	5563
5°	5599	5556	5531
10°	5555	5510	5480
15°	5496	5435	5415
20°	5430	5347	5337
25°	5355	5257	5241
30°	5242	5162	5128
35°	5092	5020	4991
40°	4933	4857	4838
45°	4742	4679	4658
50°	4545	4507	4476
55°	4333	4333	4265
60°	4068	4147	4000
65°	3723	3909	3630
70°	3282	3597	3196
75°	2802	3220	2728
80°	2175	2710	2203
85°	1404	2082	1856



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.2	0.9
10°-20°	240.5	2.5
20°-30°	356.7	3.8
30°-40°	417.4	4.4
40°-50°	415.5	4.4
50°-60°	358.8	3.8
60°-70°	258.3	2.7
70°-80°	135.4	1.4
80°-90°	35.9	0.4
90°-100°	518.3	5.5
100°-110°	1401.4	14.8
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	5.5
160°-170°	316.5	3.3
170°-180°	106.7	1.1
0°-30°	682.4	7.2
0°-40°	1099.7	11.6
0°-60°	1874.1	19.7
0°-90°	2303.7	24.3
90°-120°	3393.0	35.7
90°-150°	6249.0	65.8
90°-180°	7190.0	75.7
0°-180°	9494.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	904	904	904	904	904	
5°	907	897	900	897	896	86
15°	863	852	854	852	850	243
25°	789	776	775	770	772	363
35°	678	669	669	662	665	424
45°	545	540	538	536	536	421
55°	404	403	404	398	398	361
65°	256	264	269	258	249	254
75°	118	129	136	126	115	126
85°	20	26	30	28	26	26
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	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	904.5	904.5	904.5	904.5	904.5
2.5°	909.6	902.2	904.5	902.5	898.2
5°	906.9	896.8	899.8	897.3	895.8
7.5°	897.7	888.3	890.5	887.9	887.0
10°	889.4	880.0	882.2	879.0	877.4
12.5°	879.8	869.9	872.0	868.8	867.9
15°	863.1	852.2	853.5	851.9	850.3
17.5°	843.6	832.6	832.8	830.3	829.9
20°	829.6	817.9	816.9	813.7	815.3
22.5°	814.3	802.0	800.9	796.5	798.7
25°	789.0	775.7	774.6	769.9	772.2
27.5°	759.7	746.6	746.6	739.9	742.4
30°	738.0	725.5	726.8	718.9	722.0
32.5°	715.0	703.8	704.5	696.6	699.7
35°	678.2	668.9	668.6	662.3	664.7
37.5°	640.6	632.3	631.0	627.4	628.0
40°	614.4	607.4	604.9	602.5	602.5
42.5°	587.0	580.6	578.1	576.3	575.7
45°	545.1	540.4	537.9	536.3	535.5
47.5°	503.7	499.3	497.1	496.0	495.2
50°	475.0	471.9	471.0	468.6	467.8
52.5°	446.3	444.4	443.6	440.5	439.8
55°	404.1	403.3	404.1	398.5	397.7
57.5°	360.1	361.3	363.9	356.4	354.5
60°	330.7	333.9	337.1	328.3	325.2
62.5°	300.8	305.8	310.3	300.2	295.8
65°	255.8	263.6	268.6	258.0	249.4
67.5°	212.5	222.1	228.1	216.7	207.0
70°	182.5	193.4	200.0	188.6	177.7
72.5°	156.4	168.5	173.9	163.1	152.2
75°	117.9	128.9	135.5	126.4	114.8
77.5°	83.7	94.0	99.5	91.6	81.9
80°	61.4	72.3	76.5	70.0	62.2
82.5°	43.5	52.6	55.5	51.5	46.2
85°	19.9	26.2	29.5	27.9	26.3
87.5°	5.6	10.9	15.2	15.5	15.9
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



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**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)