

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: P563050

Luminaire Tested: **SQ4-PC3-125U-100D-935-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563050  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-PC3-125U-100D-935-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

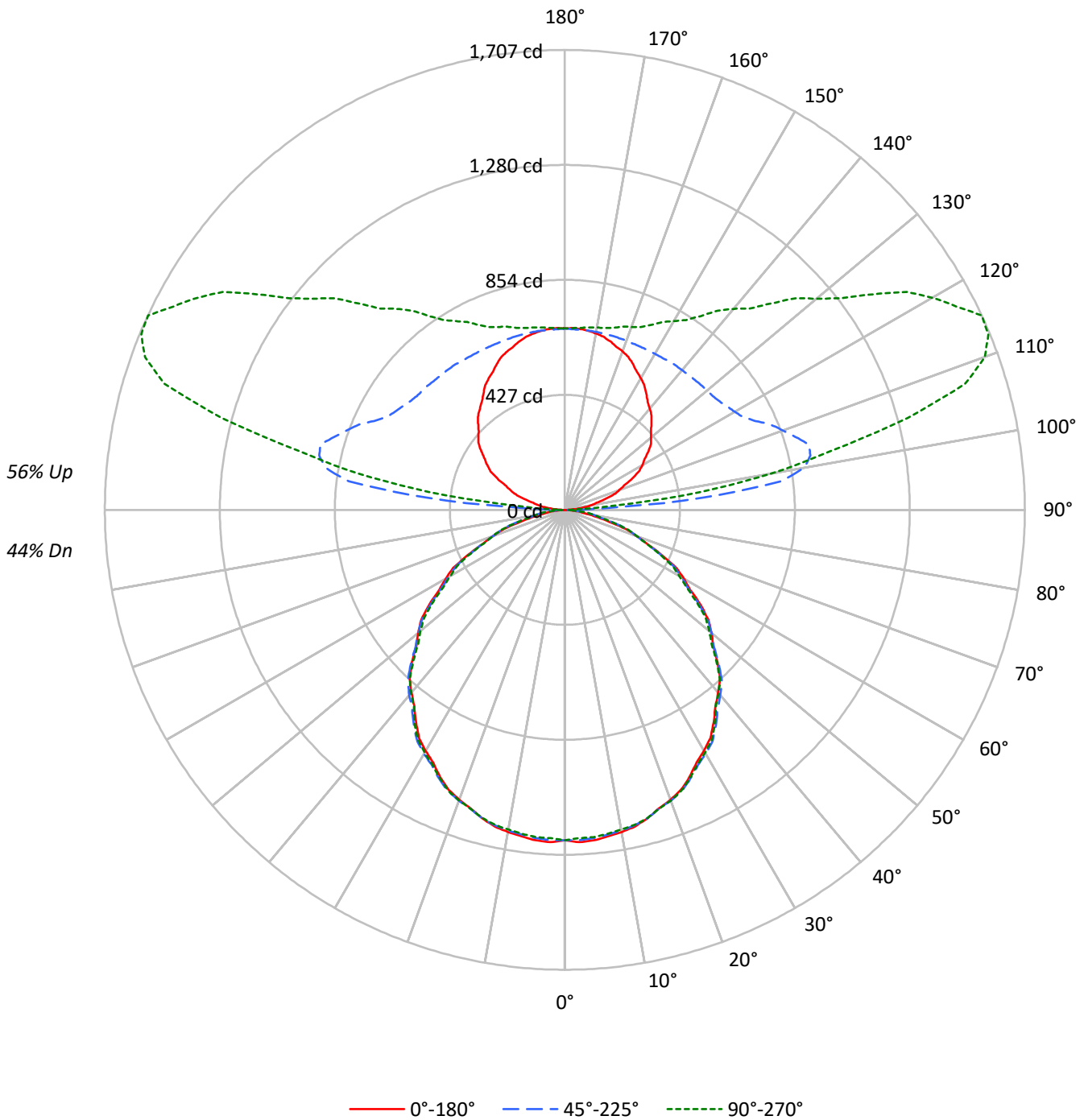
Lumens per Lamp: N/A  
Luminaire Lumens: 7694.2 lumens  
Efficiency: N/A  
Efficacy: 119.3 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 64.5  
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	64	64	64	50	50	50	44
1	96	92	88	85	88	84	81	78	70	68	66	57	55	54	44	43	42	37
2	88	80	74	69	80	74	69	64	61	58	54	50	47	45	39	37	36	31
3	80	71	63	58	73	65	59	54	54	49	46	44	41	38	35	32	30	26
4	73	62	55	49	67	57	51	45	48	43	39	39	35	32	31	28	26	22
5	67	56	48	42	61	51	44	39	43	37	33	35	31	28	28	25	23	19
6	62	50	42	36	56	46	39	34	39	33	29	32	28	24	25	22	20	17
7	57	45	37	31	52	41	34	29	35	29	25	29	25	22	23	20	18	15
8	53	41	33	28	48	38	31	26	32	26	23	26	22	19	21	18	16	13
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14	12
10	46	34	27	22	42	31	25	21	27	22	18	22	18	15	18	15	13	11

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

	0°	45°	90°
0°	11321	11321	11321
5°	11405	11332	11290
10°	11378	11325	11293
15°	11319	11319	11307
20°	11244	11277	11277
25°	11138	11218	11184
30°	11002	11135	11087
35°	10838	11004	10927
40°	10659	10809	10700
45°	10466	10540	10377
50°	10192	10192	10029
55°	9868	9740	9595
60°	9392	9202	9056
65°	8680	8508	8433
70°	7602	7661	7631
75°	6117	6762	6805
80°	4346	5733	5797
85°	2646	4806	4806



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	116.1	1.5
10°-20°	333.2	4.3
20°-30°	504.6	6.6
30°-40°	605.0	7.9
40°-50°	616.9	8.0
50°-60°	538.5	7.0
60°-70°	385.5	5.0
70°-80°	198.6	2.6
80°-90°	51.8	0.7
90°-100°	314.8	4.1
100°-110°	847.9	11.0
110°-120°	889.9	11.6
120°-130°	722.1	9.4
130°-140°	566.3	7.4
140°-150°	434.8	5.7
150°-160°	312.6	4.1
160°-170°	191.0	2.5
170°-180°	64.4	0.8
0°-30°	954.0	12.4
0°-40°	1559.0	20.3
0°-60°	2714.4	35.3
0°-90°	3350.3	43.5
90°-120°	2052.6	26.7
90°-150°	3775.9	49.1
90°-180°	4344.0	56.5
0°-180°	7694.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1227	1227	1227	1227	1227	
5°	1232	1219	1224	1220	1219	117
15°	1185	1175	1185	1185	1184	334
25°	1094	1086	1102	1099	1099	504
35°	962	960	977	970	970	602
45°	802	800	808	798	795	617
55°	614	606	606	596	596	547
65°	398	389	390	386	386	393
75°	172	179	190	191	191	185
85°	25	38	45	47	45	34
90°	2	5	10	11	11	4
95°	48	171	516	264	183	50
105°	157	244	938	1403	1317	165
115°	277	339	781	1509	1707	272
125°	378	434	701	1185	1395	338
135°	455	508	682	956	1083	351
145°	526	567	673	817	878	330
155°	598	619	667	733	757	275
165°	648	656	670	696	700	183
175°	674	673	670	680	678	64
180°	673	673	673	673	673	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1227.0	1227.0	1227.0	1227.0	1227.0
2.5°	1234.3	1223.6	1227.0	1224.2	1219.7
5°	1231.5	1219.3	1223.6	1220.1	1219.0
7.5°	1222.7	1210.5	1216.1	1213.8	1212.7
10°	1214.5	1202.3	1208.8	1206.5	1205.4
12.5°	1203.6	1192.3	1199.7	1197.4	1197.2
15°	1185.0	1175.0	1185.0	1184.9	1183.8
17.5°	1161.5	1152.4	1163.1	1163.8	1163.1
20°	1145.2	1135.2	1148.6	1147.5	1148.6
22.5°	1125.2	1117.0	1131.3	1128.4	1129.5
25°	1094.1	1086.3	1102.0	1098.6	1098.6
27.5°	1057.3	1051.7	1068.8	1065.2	1065.2
30°	1032.7	1027.2	1045.2	1040.7	1040.7
32.5°	1005.4	1001.7	1018.9	1013.4	1013.4
35°	962.3	960.1	977.0	970.2	970.2
37.5°	917.7	915.7	931.1	922.9	920.2
40°	885.0	883.9	897.5	888.4	888.4
42.5°	852.3	851.2	863.0	852.1	852.1
45°	802.1	799.9	807.8	797.5	795.3
47.5°	747.3	745.1	750.1	738.9	737.8
50°	710.1	707.8	710.1	699.8	698.7
52.5°	671.9	667.9	668.3	658.0	657.8
55°	613.5	605.7	605.5	596.5	596.5
57.5°	551.7	541.5	542.4	534.6	533.5
60°	509.0	497.9	498.7	491.9	490.8
62.5°	467.2	454.3	456.9	449.2	449.0
65°	397.6	388.7	389.7	386.3	386.3
67.5°	330.8	322.6	328.6	325.8	325.6
70°	281.8	276.2	284.0	284.0	282.9
72.5°	236.3	236.1	245.9	245.9	246.5
75°	171.6	179.3	189.7	190.9	190.9
77.5°	114.5	128.3	139.7	140.2	140.0
80°	81.8	97.4	107.9	110.2	109.1
82.5°	55.4	71.9	80.7	82.9	81.8
85°	25.0	38.3	45.4	46.6	45.4
87.5°	7.6	16.3	20.2	20.4	18.6
90°	1.7	5.1	10.3	11.1	11.1
92.5°	20.9	73.9	146.1	70.3	48.9
95°	48.0	171.2	516.0	263.9	182.6
97.5°	76.6	196.0	809.3	676.1	509.9
100°	98.6	205.9	902.6	944.4	783.5
102.5°	119.8	219.7	933.5	1145.3	1013.2
105°	156.9	244.0	937.8	1403.0	1316.6
107.5°	191.8	269.6	897.8	1535.4	1557.7
110°	215.2	288.9	861.5	1576.5	1657.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	239.8	308.2	826.5	1567.4	1701.0
115°	276.9	338.9	780.9	1508.8	1706.6
117.5°	310.6	368.8	745.6	1415.4	1635.7
120°	332.6	388.7	727.7	1348.3	1574.6
122.5°	351.8	407.3	714.7	1279.8	1505.4
125°	378.0	434.2	701.2	1185.1	1394.6
127.5°	403.2	458.5	692.6	1101.6	1288.7
130°	418.3	473.6	689.2	1053.8	1218.1
132.5°	433.4	488.0	685.7	1011.6	1162.5
135°	455.2	508.0	681.5	956.1	1082.6
137.5°	475.9	526.5	679.2	908.9	1012.8
140°	490.3	538.9	677.2	879.9	973.8
142.5°	505.4	550.7	675.8	852.8	931.9
145°	526.3	567.4	672.9	817.4	877.8
147.5°	548.9	584.6	670.0	787.6	835.1
150°	564.0	595.0	668.6	768.9	808.3
152.5°	577.7	604.7	667.9	753.7	785.7
155°	597.5	619.2	666.9	733.4	756.9
157.5°	614.8	631.7	667.1	719.2	734.9
160°	625.7	640.0	667.7	710.9	722.6
162.5°	635.3	646.9	668.4	703.9	712.3
165°	648.0	655.6	669.5	696.1	699.5
167.5°	658.3	662.7	670.3	690.1	691.4
170°	665.2	666.8	670.3	686.6	686.6
172.5°	669.3	669.6	671.0	683.2	683.2
175°	673.7	672.9	670.3	679.7	678.0
177.5°	675.6	674.3	670.8	676.3	674.9
180°	672.9	672.9	672.9	672.9	672.9

(END OF REPORT)