

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: P523892

Luminaire Tested: **SQ4-PP3-125U-075D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 5/24/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P523892  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2103-172-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/24/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PP3-125U-075D-92765-1D-UNV-STD-W-4 (2700K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8132.2 lumens  
Efficiency: N/A  
Efficacy: 111.1 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

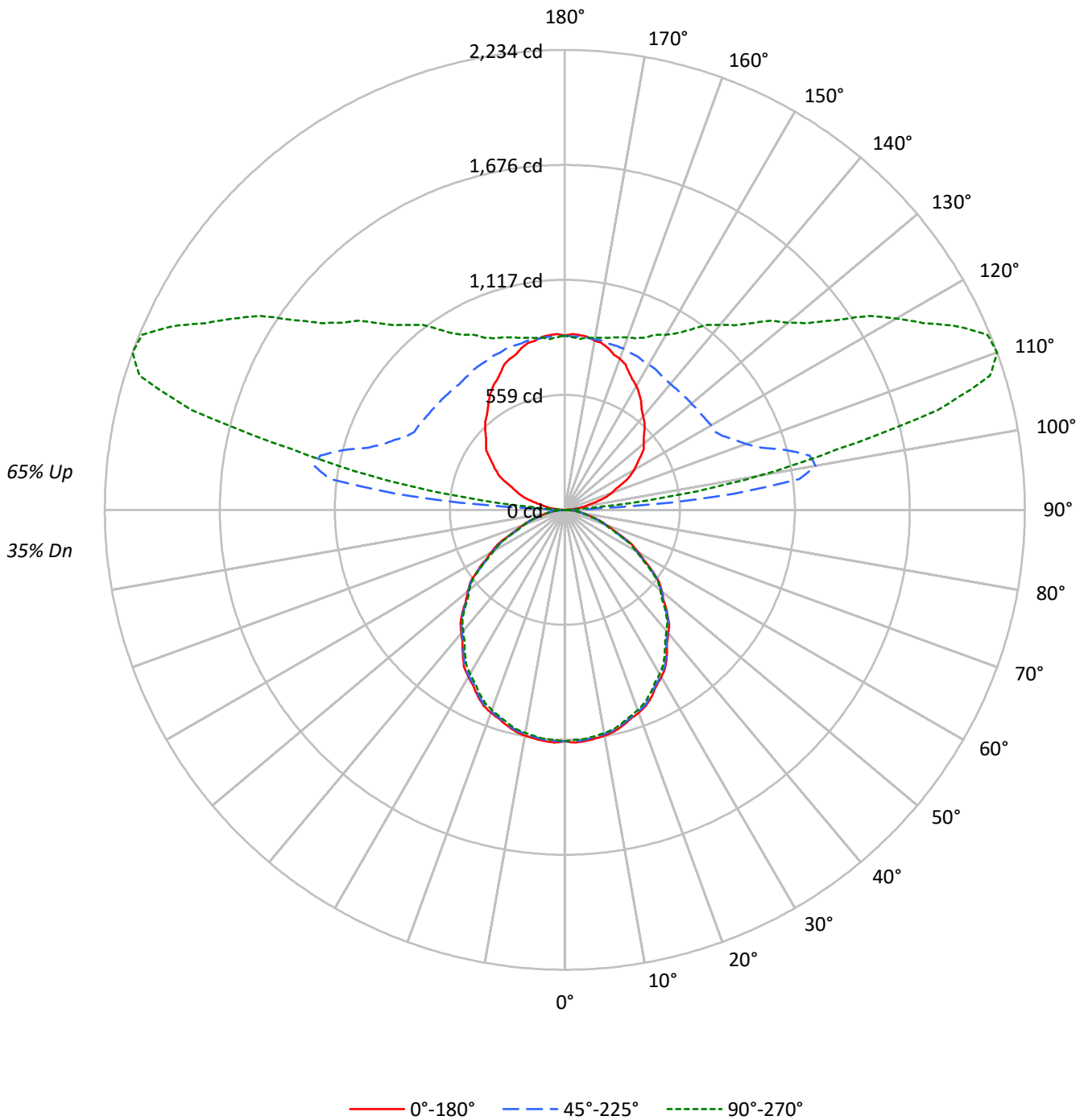
Input Watts (W): 73.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	50	30	10	0	
RCR																						
0	104	104	104	104	94	94	94	94	75	75	75	58	58	58	43	43	43	35				
1	95	91	87	83	85	82	79	76	66	64	62	51	50	49	38	37	36	30				
2	86	79	73	68	78	72	67	63	58	54	51	45	43	41	34	32	31	25				
3	79	70	63	57	71	63	57	52	51	47	43	40	37	35	30	28	26	22				
4	72	62	54	48	65	56	49	44	45	41	37	36	32	30	27	24	23	19				
5	66	55	47	41	59	50	43	38	41	36	32	32	28	26	24	22	20	16				
6	61	49	41	36	55	45	38	33	37	31	28	29	25	22	22	19	17	14				
7	56	44	36	31	51	40	34	29	33	28	24	26	23	20	20	17	15	13				
8	52	40	32	27	47	37	30	25	30	25	21	24	20	18	18	16	14	11				
9	48	36	29	24	44	33	27	23	28	23	19	22	18	16	17	14	12	10				
10	45	33	26	22	41	31	24	20	25	20	17	20	17	14	16	13	11	9				

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

	0°	45°	90°
0°	10374	10374	10374
5°	10450	10387	10350
10°	10433	10359	10313
15°	10364	10307	10251
20°	10295	10237	10159
25°	10173	10103	10002
30°	9984	9931	9805
35°	9723	9656	9534
40°	9412	9352	9246
45°	9154	9090	9000
50°	8826	8770	8685
55°	8369	8258	8196
60°	7619	7401	7364
65°	6713	6434	6412
70°	5794	5557	5557
75°	4987	4919	4848
80°	4399	4452	4346
85°	3440	3758	3758



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.3	1.3
10°-20°	303.6	3.7
20°-30°	454.7	5.6
30°-40°	533.4	6.6
40°-50°	535.0	6.6
50°-60°	456.4	5.6
60°-70°	297.7	3.7
70°-80°	149.4	1.8
80°-90°	41.3	0.5
90°-100°	385.4	4.7
100°-110°	1096.7	13.5
110°-120°	1050.8	12.9
120°-130°	831.6	10.2
130°-140°	667.5	8.2
140°-150°	522.6	6.4
150°-160°	382.4	4.7
160°-170°	236.8	2.9
170°-180°	80.4	1.0
0°-30°	864.6	10.6
0°-40°	1398.0	17.2
0°-60°	2389.5	29.4
0°-90°	2877.9	35.4
90°-120°	2532.9	31.1
90°-150°	4554.7	56.0
90°-180°	5254.0	64.6
0°-180°	8132.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1124	1124	1124	1124	1124	
5°	1128	1118	1122	1118	1118	107
15°	1085	1074	1079	1075	1073	306
25°	999	988	992	984	982	460
35°	863	855	857	848	846	539
45°	702	697	697	690	690	540
55°	520	518	513	510	510	462
65°	308	302	295	293	294	307
75°	140	140	138	137	136	152
85°	32	35	36	36	36	38
90°	0	0	0	0	0	3
95°	42	166	746	258	159	48
105°	170	258	1118	1974	1877	180
115°	317	383	848	1795	2108	312
125°	447	496	809	1342	1605	400
135°	547	592	799	1134	1282	422
145°	645	678	806	981	1069	403
155°	736	754	825	887	923	340
165°	814	817	835	853	865	229
175°	852	848	844	839	833	81
180°	846	846	846	846	846	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1124.4	1124.4	1124.4	1124.4	1124.4
2.5°	1131.5	1122.3	1124.4	1122.7	1118.1
5°	1128.3	1117.8	1121.5	1117.5	1117.5
7.5°	1120.7	1109.1	1112.8	1108.8	1108.6
10°	1113.6	1102.0	1105.7	1101.7	1100.8
12.5°	1103.3	1091.8	1096.2	1091.5	1091.3
15°	1085.0	1074.4	1079.1	1075.1	1073.2
17.5°	1064.3	1052.7	1058.4	1052.8	1052.1
20°	1048.5	1037.0	1042.6	1034.7	1034.7
22.5°	1029.6	1018.0	1024.5	1014.2	1014.2
25°	999.3	987.7	992.4	983.5	982.5
27.5°	963.2	951.8	956.7	946.6	946.4
30°	937.2	926.6	932.2	921.4	920.4
32.5°	908.8	899.0	903.1	892.2	891.2
35°	863.3	854.6	857.3	847.5	846.5
37.5°	815.4	806.5	809.7	801.2	800.8
40°	781.5	775.7	776.5	769.6	767.7
42.5°	749.9	743.4	744.2	737.3	736.9
45°	701.6	696.8	696.7	689.8	689.8
47.5°	650.4	646.7	645.7	640.0	639.8
50°	614.9	612.0	611.0	606.0	605.1
52.5°	577.9	576.5	573.1	569.0	568.8
55°	520.3	518.4	513.4	510.4	509.5
57.5°	457.8	454.0	448.4	444.1	444.8
60°	412.9	409.1	401.1	399.1	399.1
62.5°	369.5	364.9	356.9	354.2	355.8
65°	307.5	301.7	294.7	292.7	293.7
67.5°	251.1	245.9	238.3	238.3	237.5
70°	214.8	211.9	206.0	206.0	206.0
72.5°	182.5	181.2	176.8	176.8	176.0
75°	139.9	139.9	138.0	137.0	136.0
77.5°	104.9	105.2	104.3	103.2	101.5
80°	82.8	84.7	83.8	82.8	81.8
82.5°	62.3	64.2	64.1	62.3	62.1
85°	32.5	35.4	35.5	35.5	35.5
87.5°	8.7	11.8	12.6	12.6	13.4
90°	0.0	0.0	0.0	0.0	0.0
92.5°	12.9	68.2	158.2	46.1	34.7
95°	41.8	166.0	746.2	258.3	159.2
97.5°	76.9	194.5	1149.2	822.3	563.5
100°	101.3	211.4	1236.6	1252.6	964.9
102.5°	128.3	229.6	1217.3	1603.4	1352.1
105°	170.5	258.5	1117.6	1974.1	1876.7
107.5°	213.2	292.2	1001.2	2078.7	2165.5
110°	242.8	316.7	934.3	2038.7	2233.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	271.1	341.3	889.3	1944.1	2222.1
115°	316.8	382.8	847.5	1795.3	2108.2
117.5°	357.0	419.0	822.7	1632.7	1964.1
120°	389.2	441.0	820.1	1539.7	1857.4
122.5°	414.9	466.8	813.7	1458.2	1753.2
125°	447.1	495.8	808.9	1342.3	1604.9
127.5°	482.1	527.7	806.3	1273.1	1489.4
130°	500.1	545.7	802.4	1224.8	1413.5
132.5°	519.4	563.8	802.4	1187.2	1360.8
135°	546.8	592.4	799.2	1133.9	1281.7
137.5°	572.5	616.8	798.9	1088.7	1216.4
140°	591.8	637.4	797.6	1051.3	1173.9
142.5°	613.7	651.7	801.5	1021.4	1131.5
145°	644.8	677.9	805.7	981.3	1069.4
147.5°	671.5	703.6	812.7	940.9	1017.0
150°	694.7	716.7	815.3	927.5	980.9
152.5°	712.7	736.0	817.9	909.4	959.1
155°	736.5	753.8	825.0	886.9	923.1
157.5°	766.1	776.5	826.6	876.7	902.5
160°	781.5	789.4	833.0	868.9	890.9
162.5°	790.5	799.7	834.3	862.3	879.3
165°	813.7	816.8	834.6	852.6	865.2
167.5°	829.5	826.6	842.0	850.2	855.2
170°	834.6	833.0	839.4	841.2	847.5
172.5°	846.2	840.8	843.3	838.6	843.6
175°	852.3	847.6	844.3	839.3	833.0
177.5°	854.9	847.3	843.3	838.2	839.4
180°	845.9	845.9	845.9	845.9	845.9

(END OF REPORT)