

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: P564370

Luminaire Tested: **SQ4-PR1-125U-075D-935-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564370  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2106-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PR1-125U-075D-935-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

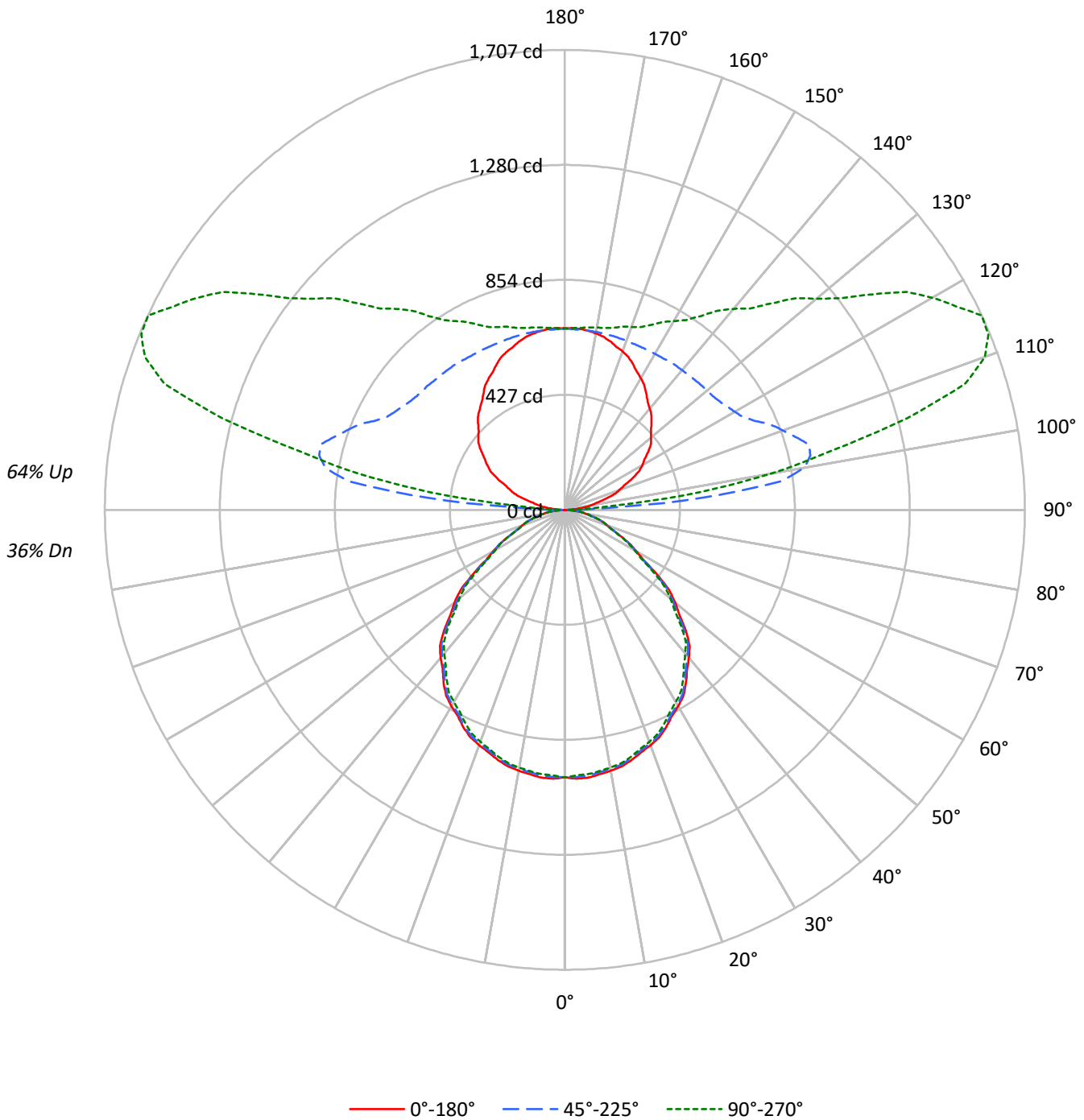
Lumens per Lamp: N/A  
Luminaire Lumens: 6827.1 lumens  
Efficiency: N/A  
Efficacy: 122.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 55.7  
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: P564370  
CATALOG NUMBER: SQ4-PR1-125U-075D-935-1D-UNV-STD-W-4

### Luminous Intensity Polar Plot





TEST NUMBER: P564370

CATALOG NUMBER: SQ4-PR1-125U-075D-935-1D-UNV-STD-W-4

**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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	36
1	95	91	87	84	86	82	79	76	67	64	62	52	51	49	39	38	37	31
2	87	79	74	69	78	72	67	63	59	55	52	46	44	42	34	33	32	26
3	79	70	63	57	71	64	58	53	52	48	44	41	38	35	31	29	27	23
4	72	62	54	49	65	56	50	45	46	41	38	36	33	30	28	25	24	19
5	66	55	47	42	60	50	44	38	41	36	32	33	29	26	25	22	21	17
6	61	49	42	36	55	45	38	33	37	32	28	30	26	23	23	20	18	15
7	56	45	37	31	51	41	34	29	34	29	25	27	23	20	21	18	16	13
8	52	40	33	28	47	37	30	26	31	26	22	25	21	18	19	16	14	12
9	49	37	30	25	44	34	27	23	28	23	20	23	19	16	17	15	13	11
10	45	34	27	22	41	31	25	21	26	21	18	21	17	15	16	14	12	10

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

	0°	45°	90°
0°	9159	9159	9159
5°	9241	9170	9123
10°	9212	9148	9100
15°	9172	9114	9065
20°	9125	9066	8999
25°	9061	9000	8896
30°	8964	8900	8772
35°	8831	8754	8629
40°	8629	8537	8383
45°	8278	8133	7966
50°	7658	7474	7327
55°	6685	6532	6396
60°	5634	5586	5475
65°	4873	4890	4853
70°	4475	4497	4497
75°	4299	4299	4328
80°	4043	4091	4043
85°	3260	3620	3620



TEST NUMBER: P564370

CATALOG NUMBER: SQ4-PR1-125U-075D-935-1D-UNV-STD-W-4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.9	1.4
10°-20°	268.6	3.9
20°-30°	405.1	5.9
30°-40°	482.7	7.1
40°-50°	475.9	7.0
50°-60°	363.7	5.3
60°-70°	225.1	3.3
70°-80°	127.8	1.9
80°-90°	40.5	0.6
90°-100°	314.8	4.6
100°-110°	847.9	12.4
110°-120°	889.9	13.0
120°-130°	722.1	10.6
130°-140°	566.3	8.3
140°-150°	434.8	6.4
150°-160°	312.6	4.6
160°-170°	191.0	2.8
170°-180°	64.4	0.9
0°-30°	767.6	11.2
0°-40°	1250.3	18.3
0°-60°	2089.9	30.6
0°-90°	2483.2	36.4
90°-120°	2052.6	30.1
90°-150°	3775.9	55.3
90°-180°	4344.0	63.6
0°-180°	6827.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	993	993	993	993	993	
5°	998	987	990	987	985	95
15°	960	950	954	951	949	271
25°	890	879	884	875	874	410
35°	784	775	777	767	766	489
45°	634	626	623	612	610	486
55°	416	409	406	399	398	372
65°	223	222	224	222	222	226
75°	121	121	121	121	121	127
85°	31	32	34	34	34	36
90°	2	5	10	11	11	5
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	

TEST NUMBER: P564370

CATALOG NUMBER: SQ4-PR1-125U-075D-935-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	992.7	992.7	992.7	992.7	992.7
2.5°	998.9	990.2	992.7	990.5	985.9
5°	997.8	987.0	990.1	986.7	985.0
7.5°	990.1	979.4	982.6	979.2	978.2
10°	983.3	973.3	976.5	973.0	971.3
12.5°	975.8	965.1	968.9	964.8	963.1
15°	960.2	950.2	954.2	950.8	949.1
17.5°	943.1	932.4	936.4	932.5	930.3
20°	929.4	919.4	923.4	917.4	916.6
22.5°	914.4	904.4	908.4	900.4	900.2
25°	890.1	879.2	884.1	874.7	873.9
27.5°	861.2	851.2	855.2	845.6	844.6
30°	841.4	831.3	835.4	825.1	823.4
32.5°	818.8	809.4	812.8	802.5	801.5
35°	784.1	774.9	777.2	767.0	766.1
37.5°	744.6	736.2	737.6	726.3	725.4
40°	716.5	708.2	708.8	696.8	696.0
42.5°	685.7	677.4	676.7	664.7	663.9
45°	634.4	626.1	623.3	612.2	610.5
47.5°	576.0	567.6	562.4	553.4	552.2
50°	533.5	525.2	520.7	513.0	510.5
52.5°	487.7	479.4	475.6	468.5	466.0
55°	415.6	408.9	406.1	399.3	397.6
57.5°	347.0	342.5	341.7	335.0	334.3
60°	305.3	302.7	302.7	296.7	296.7
62.5°	269.7	267.8	269.2	265.2	264.6
65°	223.2	221.5	224.0	222.3	222.3
67.5°	186.4	186.4	187.9	187.3	187.3
70°	165.9	165.9	166.7	166.7	166.7
72.5°	147.4	146.7	148.9	148.9	148.3
75°	120.6	120.6	120.6	121.4	121.4
77.5°	93.9	94.1	94.7	94.6	93.9
80°	76.1	76.9	77.0	76.1	76.1
82.5°	58.3	59.1	59.2	59.0	58.3
85°	30.8	32.5	34.2	34.2	34.2
87.5°	9.2	12.6	15.7	15.9	15.2
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



TEST NUMBER: P564370

CATALOG NUMBER: SQ4-PR1-125U-075D-935-1D-UNV-STD-W-4

**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)