

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: P564036

Luminaire Tested: **SQ4-PR1-050U-125D-935-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564036  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-PR1-050U-125D-935-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

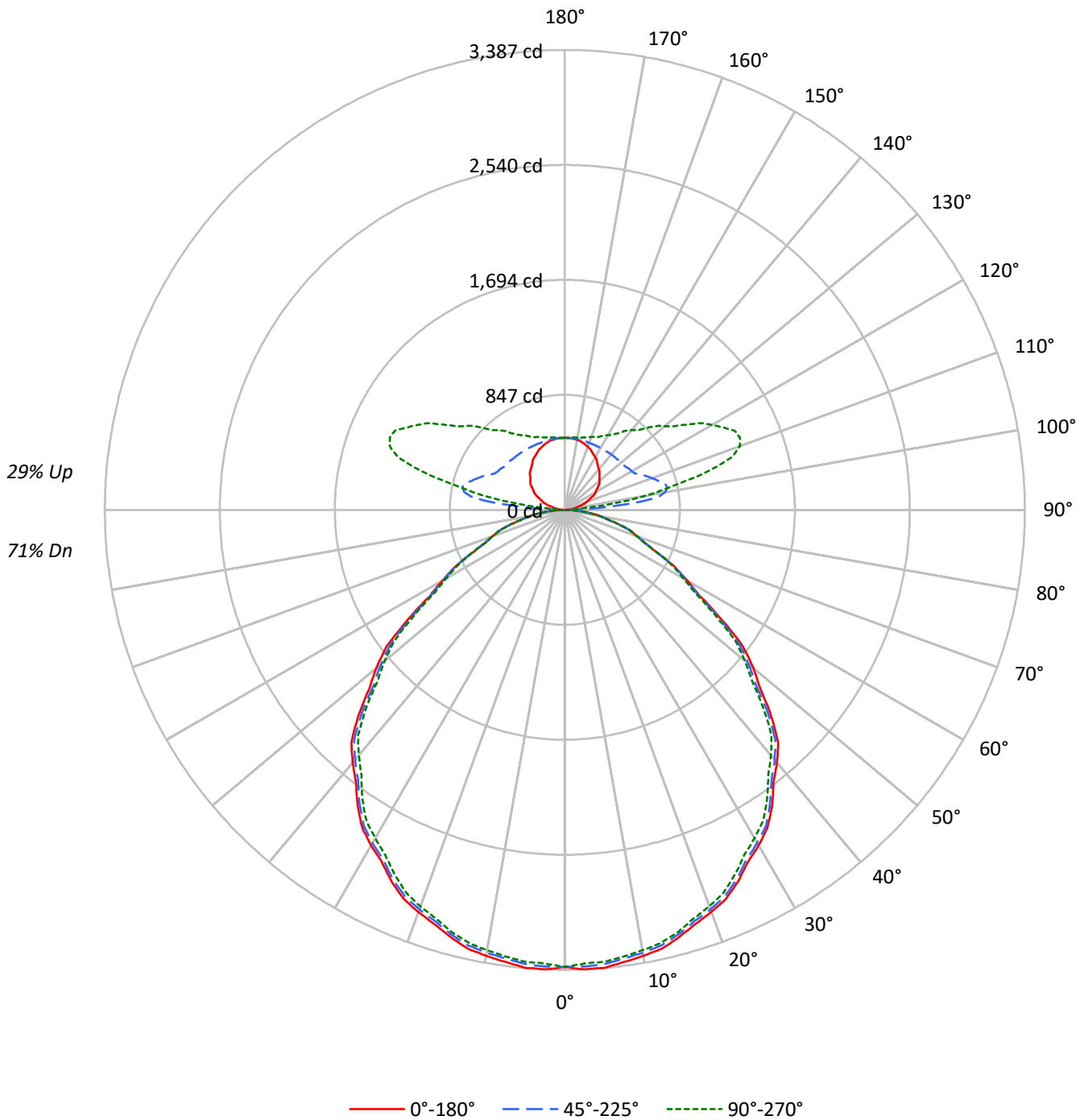
Lumens per Lamp: N/A  
Luminaire Lumens: 11879.4 lumens  
Efficiency: N/A  
Efficacy: 103.5 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 114.8  
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: P564036  
CATALOG NUMBER: SQ4-PR1-050U-125D-935-1D-UNV-STD-W-8

### Luminous Intensity Polar Plot





TEST NUMBER: P564036

CATALOG NUMBER: SQ4-PR1-050U-125D-935-1D-UNV-STD-W-8

**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	112	112	112	112	106	106	106	106	95	95	95	85	85	85	75	75	75	75	75	75	71	
1	103	99	95	91	97	93	90	87	84	81	79	75	73	71	67	66	64	64	64	64	60	
2	94	87	80	75	89	82	77	72	74	70	66	67	63	60	60	57	55	55	55	55	51	
3	86	77	69	63	81	73	66	61	66	60	56	59	55	52	53	50	47	47	47	47	44	
4	79	68	60	54	75	65	58	52	59	53	48	53	48	45	48	44	41	41	41	41	38	
5	73	61	53	47	69	58	51	45	53	47	42	48	43	39	43	39	36	36	36	36	33	
6	67	55	47	41	63	52	45	39	48	41	37	43	38	34	39	35	32	32	32	32	29	
7	62	50	42	36	59	48	40	35	43	37	33	40	34	30	36	32	28	28	28	28	26	
8	58	45	37	32	55	43	36	31	40	34	29	36	31	27	33	29	25	25	25	25	23	
9	54	41	34	29	51	40	33	28	37	30	26	33	28	25	31	26	23	23	23	23	21	
10	51	38	31	26	48	37	30	25	34	28	24	31	26	22	28	24	21	21	21	21	19	

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

	0°	45°	90°
0°	15530	15530	15530
5°	15670	15549	15468
10°	15620	15511	15430
15°	15552	15455	15371
20°	15473	15374	15260
25°	15364	15261	15084
30°	15198	15090	14874
35°	14974	14844	14631
40°	14633	14476	14214
45°	14036	13790	13506
50°	12986	12673	12424
55°	11334	11077	10844
60°	9551	9471	9283
65°	8261	8293	8229
70°	7587	7626	7626
75°	7286	7286	7338
80°	6857	6934	6857
85°	5526	6140	6140



TEST NUMBER: P564036

CATALOG NUMBER: SQ4-PR1-050U-125D-935-1D-UNV-STD-W-8

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	318.4	2.7
10°-20°	910.8	7.7
20°-30°	1373.8	11.6
30°-40°	1636.9	13.8
40°-50°	1613.8	13.6
50°-60°	1233.4	10.4
60°-70°	763.3	6.4
70°-80°	433.5	3.6
80°-90°	133.9	1.1
90°-100°	254.5	2.1
100°-110°	691.4	5.8
110°-120°	710.8	6.0
120°-130°	568.3	4.8
130°-140°	446.6	3.8
140°-150°	342.4	2.9
150°-160°	246.2	2.1
160°-170°	150.6	1.3
170°-180°	50.7	0.4
0°-30°	2603.0	21.9
0°-40°	4239.9	35.7
0°-60°	7087.1	59.7
0°-90°	8417.8	70.9
90°-120°	1656.7	13.9
90°-150°	3014.0	25.4
90°-180°	3462.0	29.1
0°-180°	11879.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3366	3366	3366	3366	3366	
5°	3384	3347	3358	3346	3340	321
15°	3256	3222	3236	3224	3219	919
25°	3018	2982	2998	2966	2963	1389
35°	2659	2628	2636	2601	2598	1660
45°	2152	2123	2114	2076	2070	1648
55°	1409	1386	1377	1354	1348	1263
65°	757	751	760	754	754	767
75°	409	409	409	412	412	432
85°	104	110	116	116	116	121
90°	2	7	12	15	15	7
95°	38	139	443	193	130	40
105°	123	191	760	1158	1089	130
115°	218	265	609	1211	1379	215
125°	300	342	551	928	1094	267
135°	361	401	535	756	852	279
145°	418	448	528	642	690	262
155°	472	489	525	577	593	218
165°	511	518	527	549	551	144
175°	530	532	528	535	534	50
180°	530	530	530	530	530	

TEST NUMBER: P564036

CATALOG NUMBER: SQ4-PR1-050U-125D-935-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3366.5	3366.5	3366.5	3366.5	3366.5
2.5°	3387.3	3357.9	3366.5	3359.1	3343.3
5°	3383.9	3347.0	3357.8	3346.0	3340.4
7.5°	3357.8	3321.5	3332.2	3320.6	3317.2
10°	3334.6	3300.5	3311.4	3299.6	3294.0
12.5°	3309.1	3272.8	3285.9	3271.8	3266.1
15°	3256.3	3222.3	3236.0	3224.3	3218.6
17.5°	3198.3	3162.0	3175.7	3162.2	3154.8
20°	3151.9	3117.9	3131.6	3111.2	3108.4
22.5°	3100.9	3066.8	3080.6	3053.3	3052.7
25°	3018.5	2981.7	2998.2	2966.3	2963.4
27.5°	2920.5	2886.5	2900.2	2867.7	2864.2
30°	2853.2	2819.2	2832.9	2798.0	2792.3
32.5°	2776.7	2744.9	2756.4	2721.5	2718.1
35°	2659.0	2627.8	2635.8	2600.9	2598.1
37.5°	2525.0	2496.6	2501.2	2462.9	2460.0
40°	2429.9	2401.5	2403.8	2363.1	2360.3
42.5°	2325.5	2297.1	2294.8	2254.1	2251.3
45°	2151.5	2123.2	2113.8	2076.0	2070.3
47.5°	1953.2	1924.8	1907.4	1876.5	1872.6
50°	1809.4	1781.0	1765.9	1739.6	1731.1
52.5°	1653.9	1625.6	1612.8	1588.8	1580.3
55°	1409.2	1386.5	1377.3	1354.0	1348.3
57.5°	1176.7	1161.4	1158.7	1136.0	1133.8
60°	1035.2	1026.7	1026.5	1006.2	1006.2
62.5°	914.5	908.3	912.8	899.4	897.1
65°	756.8	751.1	759.7	753.9	753.9
67.5°	632.1	632.1	637.3	635.0	635.0
70°	562.5	562.5	565.4	565.4	565.4
72.5°	499.9	497.6	505.1	505.1	502.8
75°	408.8	408.8	408.8	411.7	411.7
77.5°	318.4	318.9	321.3	320.6	318.4
80°	258.1	260.9	261.0	258.1	258.1
82.5°	197.8	200.6	200.7	200.0	197.8
85°	104.4	110.1	116.0	116.0	116.0
87.5°	30.5	40.6	48.8	49.4	47.1
90°	1.7	6.7	11.9	15.3	15.3
92.5°	15.3	69.7	121.0	52.0	44.0
95°	37.5	139.2	443.2	192.9	129.6
97.5°	62.1	153.7	679.5	528.6	371.3
100°	78.4	163.4	751.8	762.1	615.4
102.5°	94.8	173.1	770.9	942.5	813.1
105°	122.7	191.1	760.3	1157.6	1089.3
107.5°	151.7	212.1	716.3	1268.7	1287.7
110°	172.2	227.2	683.6	1290.6	1372.3

TEST NUMBER: P564036

CATALOG NUMBER: SQ4-PR1-050U-125D-935-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	189.9	242.2	650.8	1272.4	1395.4
115°	218.2	264.9	608.6	1210.7	1379.1
117.5°	244.8	289.5	581.6	1123.3	1312.9
120°	262.5	305.9	569.4	1064.6	1252.9
122.5°	277.5	320.9	561.2	1005.8	1187.5
125°	300.0	341.7	550.6	927.7	1094.4
127.5°	320.1	361.5	544.8	868.5	1011.6
130°	332.4	372.4	542.1	831.4	959.7
132.5°	344.7	384.7	539.4	799.7	913.4
135°	361.4	401.4	535.3	755.7	852.3
137.5°	379.5	415.8	533.2	716.8	798.1
140°	390.4	425.4	531.9	692.1	765.4
142.5°	401.3	433.6	530.5	672.7	734.0
145°	417.6	447.6	528.4	642.1	690.4
147.5°	436.1	461.7	526.7	618.0	656.0
150°	448.3	470.0	526.7	604.1	634.1
152.5°	457.9	476.9	525.4	591.7	616.4
155°	472.2	488.9	525.0	576.6	593.2
157.5°	486.2	499.2	525.0	566.2	578.9
160°	494.4	506.0	525.0	559.4	569.4
162.5°	502.5	511.5	526.4	553.8	561.2
165°	511.4	518.1	526.7	548.9	550.6
167.5°	520.6	523.9	528.4	543.1	544.5
170°	523.3	526.7	528.4	540.4	540.4
172.5°	526.1	528.1	528.4	537.7	537.7
175°	530.2	531.8	528.4	535.2	533.6
177.5°	531.5	531.5	527.4	532.8	530.2
180°	530.2	530.2	530.2	530.2	530.2

(END OF REPORT)