

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: P564692

Luminaire Tested: **SQ4-PW1-050U-125D-830-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564692  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-PW1-050U-125D-830-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

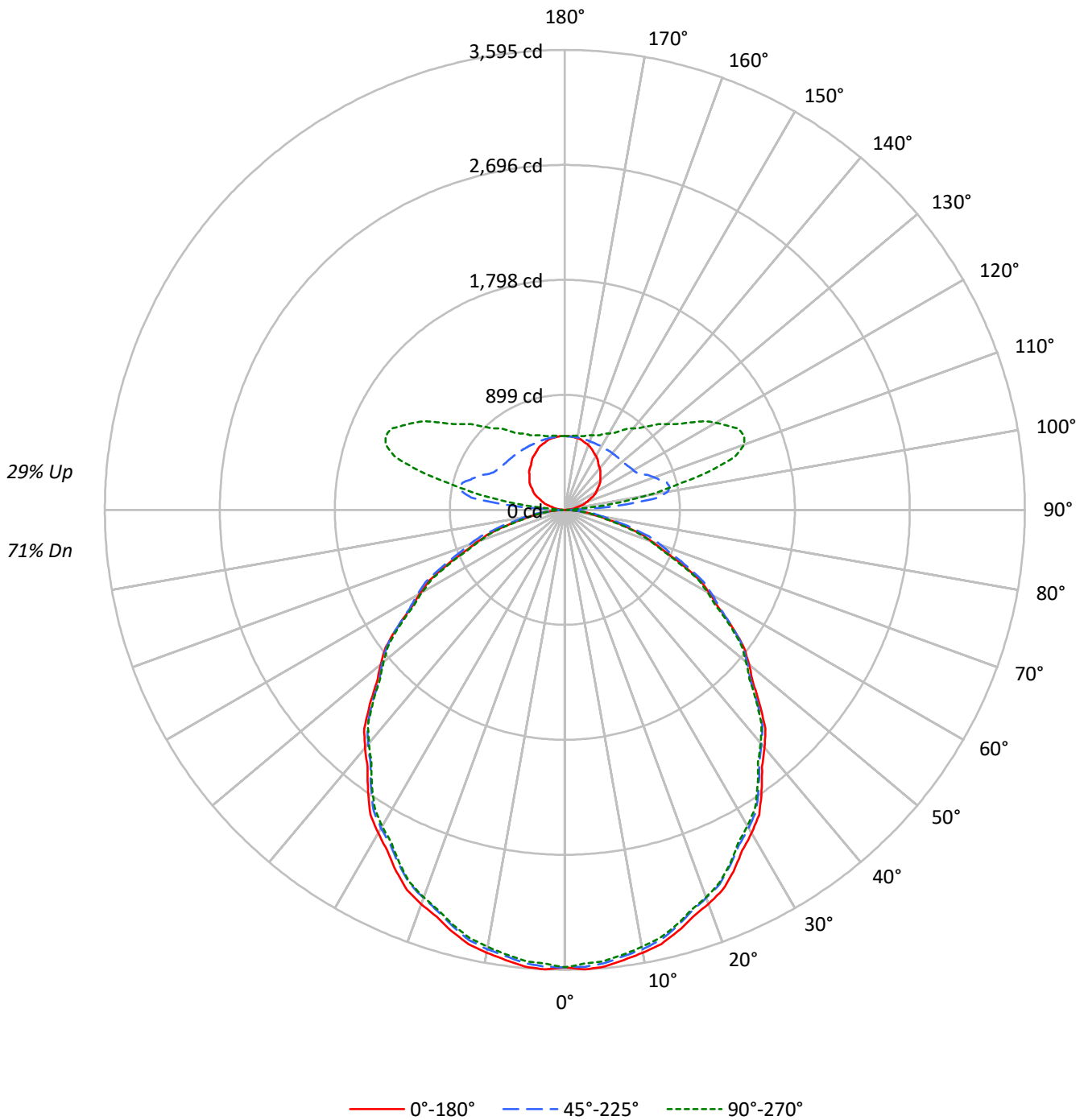
Lumens per Lamp: N/A  
Luminaire Lumens: 12858.7 lumens  
Efficiency: N/A  
Efficacy: 112.0 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Semi-Direct

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



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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	112	112	112	112	106	106	106	106	95	95	95	85	85	85	75	75	75	71
1	103	98	94	91	97	93	90	86	84	81	78	75	73	71	67	65	64	60
2	94	86	80	74	88	82	76	71	73	69	65	66	62	59	59	56	54	50
3	85	76	68	62	81	72	65	60	65	59	55	58	54	50	52	49	46	43
4	78	67	59	53	74	64	56	51	58	52	47	52	47	43	47	43	40	37
5	72	60	52	45	68	57	49	44	52	45	41	47	42	38	42	38	35	32
6	66	54	46	40	63	51	44	38	47	40	36	42	37	33	38	34	31	28
7	61	49	41	35	58	47	39	34	42	36	32	39	33	29	35	31	27	25
8	57	44	36	31	54	43	35	30	39	33	28	35	30	26	32	28	24	22
9	53	41	33	28	50	39	32	27	36	30	25	33	27	24	30	25	22	20
10	50	37	30	25	47	36	29	24	33	27	23	30	25	21	28	23	20	18

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

	0°	45°	90°
0°	16493	16493	16493
5°	16599	16468	16395
10°	16467	16334	16246
15°	16292	16112	16052
20°	16098	15850	15819
25°	15873	15584	15536
30°	15537	15302	15201
35°	15096	14883	14794
40°	14625	14397	14340
45°	14056	13871	13809
50°	13474	13360	13270
55°	12844	12844	12642
60°	12060	12293	11858
65°	11037	11587	10762
70°	9729	10663	9474
75°	8309	9545	8085
80°	6442	8033	6527
85°	4166	6166	5499



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	336.7	2.6
10°-20°	950.5	7.4
20°-30°	1409.9	11.0
30°-40°	1649.7	12.8
40°-50°	1642.3	12.8
50°-60°	1418.2	11.0
60°-70°	1020.9	7.9
70°-80°	535.3	4.2
80°-90°	134.9	1.0
90°-100°	276.5	2.2
100°-110°	751.0	5.8
110°-120°	772.2	6.0
120°-130°	617.4	4.8
130°-140°	485.1	3.8
140°-150°	372.0	2.9
150°-160°	267.5	2.1
160°-170°	163.6	1.3
170°-180°	55.1	0.4
0°-30°	2697.0	21.0
0°-40°	4346.7	33.8
0°-60°	7407.2	57.6
0°-90°	9098.4	70.8
90°-120°	1799.7	14.0
90°-150°	3274.1	25.5
90°-180°	3760.0	29.2
0°-180°	12858.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3575	3575	3575	3575	3575	
5°	3585	3545	3556	3547	3540	340
15°	3411	3368	3374	3367	3361	962
25°	3118	3066	3062	3043	3052	1434
35°	2681	2644	2643	2618	2627	1676
45°	2154	2136	2126	2120	2117	1662
55°	1597	1594	1597	1575	1572	1425
65°	1011	1042	1062	1020	986	1002
75°	466	509	536	500	454	500
85°	79	103	116	110	104	104
90°	2	7	13	17	17	6
95°	41	151	482	210	141	43
105°	133	208	826	1258	1183	142
115°	237	288	661	1315	1498	234
125°	326	371	598	1008	1189	291
135°	393	436	582	821	926	304
145°	454	486	574	698	750	285
155°	513	531	570	626	644	237
165°	556	563	572	596	598	157
175°	576	578	574	581	580	55
180°	576	576	576	576	576	

TEST NUMBER: P564692

CATALOG NUMBER: SQ4-PW1-050U-125D-830-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3575.2	3575.2	3575.2	3575.2	3575.2
2.5°	3595.3	3565.7	3575.2	3567.2	3550.0
5°	3584.6	3544.6	3556.3	3546.7	3540.5
7.5°	3548.1	3511.1	3519.7	3509.6	3505.9
10°	3515.3	3478.4	3487.0	3474.2	3468.1
12.5°	3477.5	3438.1	3446.6	3434.0	3430.3
15°	3411.4	3368.2	3373.6	3367.1	3361.0
17.5°	3334.5	3290.8	3291.7	3281.6	3280.3
20°	3279.1	3232.9	3228.7	3216.2	3222.4
22.5°	3218.6	3169.9	3165.7	3148.2	3156.8
25°	3118.4	3066.1	3061.7	3043.0	3052.3
27.5°	3002.5	2950.8	2950.8	2924.6	2934.5
30°	2916.8	2867.5	2872.7	2841.5	2853.8
32.5°	2826.1	2781.8	2784.5	2753.3	2765.6
35°	2680.6	2643.6	2642.8	2617.8	2627.0
37.5°	2531.9	2499.3	2494.1	2479.7	2482.1
40°	2428.6	2400.9	2390.8	2381.3	2381.3
42.5°	2320.2	2295.0	2285.0	2278.0	2275.5
45°	2154.5	2136.1	2126.2	2119.8	2116.7
47.5°	1990.7	1973.5	1964.9	1960.4	1957.4
50°	1877.4	1865.0	1861.6	1852.1	1849.0
52.5°	1764.0	1756.6	1753.2	1741.2	1738.1
55°	1597.0	1593.9	1597.0	1574.9	1571.8
57.5°	1423.1	1428.1	1438.3	1408.5	1401.1
60°	1307.2	1319.5	1332.4	1297.5	1285.2
62.5°	1188.8	1208.5	1226.6	1186.5	1169.2
65°	1011.1	1041.9	1061.5	1019.8	985.9
67.5°	839.8	878.0	901.5	856.5	818.3
70°	721.3	764.5	790.6	745.6	702.4
72.5°	618.0	666.1	687.3	644.8	601.6
75°	466.2	509.3	535.5	499.8	453.6
77.5°	330.7	371.4	393.1	362.0	323.8
80°	242.5	285.7	302.4	276.5	245.7
82.5°	172.0	207.7	219.2	203.6	182.7
85°	78.7	103.4	116.5	110.1	103.9
87.5°	20.5	38.9	50.5	51.3	53.7
90°	1.9	7.3	13.0	16.7	16.7
92.5°	16.7	75.7	131.5	56.5	47.8
95°	40.7	151.2	481.5	209.5	140.7
97.5°	67.4	167.0	738.1	574.3	403.3
100°	85.2	177.5	816.7	827.8	668.5
102.5°	103.0	188.1	837.4	1023.8	883.3
105°	133.3	207.6	825.9	1257.5	1183.3
107.5°	164.8	230.4	778.1	1378.2	1398.9
110°	187.0	246.8	742.6	1402.0	1490.7

TEST NUMBER: P564692

CATALOG NUMBER: SQ4-PW1-050U-125D-830-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	206.3	263.1	707.0	1382.3	1515.9
115°	237.0	287.7	661.1	1315.2	1498.1
117.5°	265.9	314.4	631.8	1220.2	1426.3
120°	285.2	332.3	618.5	1156.5	1361.1
122.5°	301.5	348.6	609.6	1092.6	1290.0
125°	325.9	371.2	598.1	1007.8	1188.9
127.5°	347.8	392.7	591.8	943.5	1098.9
130°	361.1	404.6	588.9	903.2	1042.6
132.5°	374.4	417.9	585.9	868.7	992.2
135°	392.6	436.0	581.5	820.9	925.9
137.5°	412.2	451.7	579.2	778.7	867.0
140°	424.1	462.1	577.8	751.8	831.5
142.5°	435.9	471.0	576.3	730.8	797.4
145°	453.7	486.3	574.1	697.5	750.0
147.5°	473.7	501.6	572.2	671.3	712.6
150°	487.0	510.6	572.2	656.3	688.9
152.5°	497.4	518.0	570.7	642.8	669.6
155°	513.0	531.1	570.4	626.3	644.4
157.5°	528.1	542.3	570.4	615.1	628.9
160°	537.0	549.7	570.4	607.6	618.5
162.5°	545.9	555.7	571.8	601.7	609.6
165°	555.5	562.8	572.2	596.3	598.1
167.5°	565.5	569.2	574.1	590.0	591.5
170°	568.5	572.1	574.1	587.0	587.0
172.5°	571.5	573.6	574.1	584.1	584.1
175°	575.9	577.7	574.1	581.4	579.6
177.5°	577.4	577.4	573.0	578.8	575.9
180°	575.9	575.9	575.9	575.9	575.9

(END OF REPORT)