

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: P563348

Luminaire Tested: **SQ4-PP3-050U-125D-830-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563348  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, G2-2103-172-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PP3-050U-125D-830-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

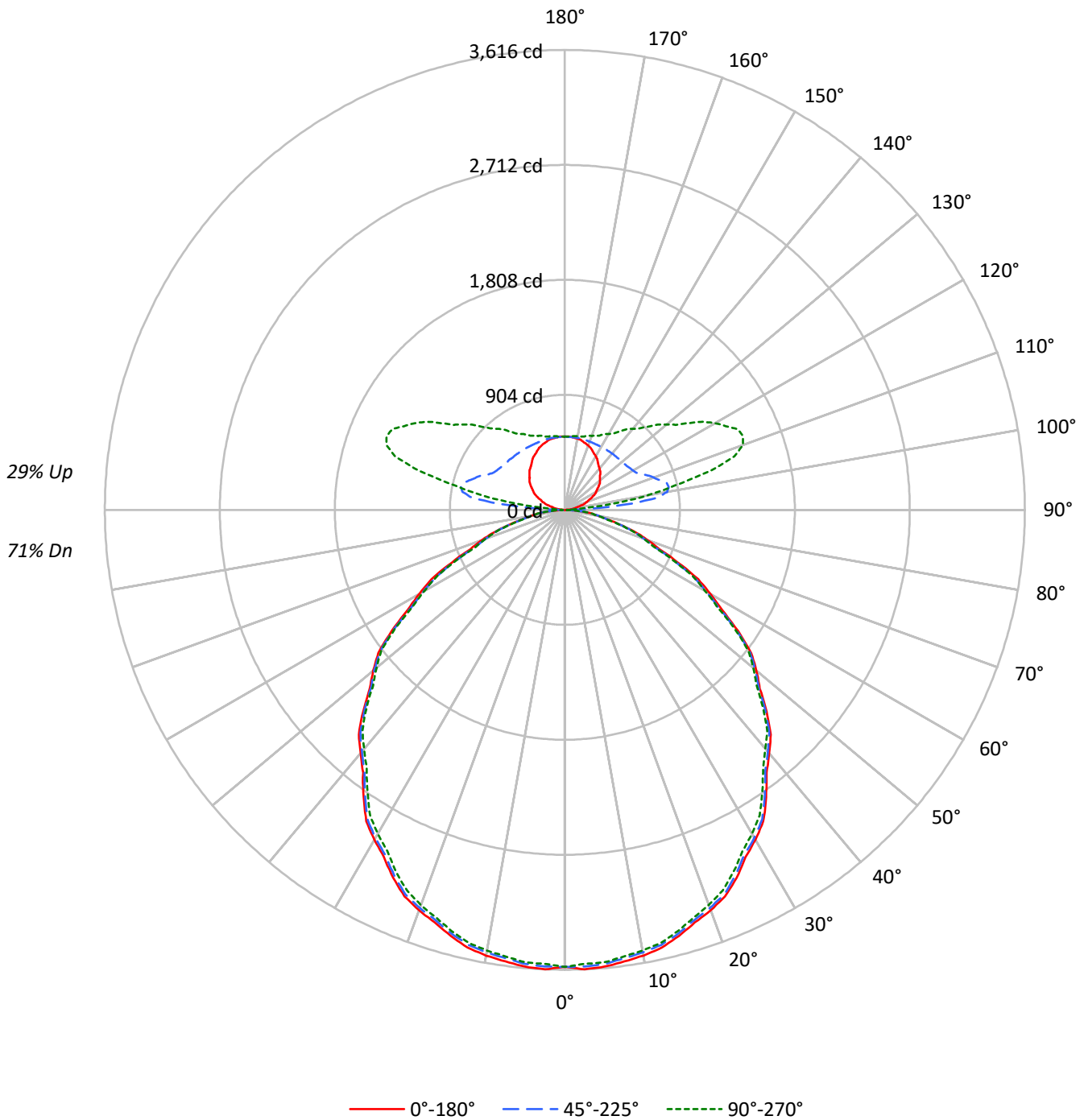
Lumens per Lamp: N/A  
Luminaire Lumens: 12959.2 lumens  
Efficiency: N/A  
Efficacy: 112.9 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Semi-Direct

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	95	91	97	93	90	87	84	81	79	75	73	71	67	66	64	60
2	94	86	80	75	89	82	76	72	74	69	66	66	63	60	59	57	55	51
3	86	76	69	63	81	72	66	60	65	60	56	59	55	51	53	50	47	43
4	79	68	59	53	74	64	57	51	58	52	48	53	48	44	47	44	40	37
5	72	60	52	46	68	58	50	44	52	46	41	47	42	38	43	39	35	33
6	67	54	46	40	63	52	44	39	47	41	36	43	38	34	39	34	31	29
7	62	49	41	35	58	47	39	34	43	37	32	39	34	30	35	31	28	25
8	57	45	37	31	54	43	35	30	39	33	29	36	31	27	33	28	25	23
9	54	41	33	28	51	39	32	27	36	30	26	33	28	24	30	26	22	20
10	50	38	30	25	48	36	29	25	33	27	23	31	25	22	28	24	20	19

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

	0°	45°	90°
0°	16576	16576	16576
5°	16697	16596	16537
10°	16669	16551	16477
15°	16559	16469	16378
20°	16449	16356	16233
25°	16254	16141	15981
30°	15953	15869	15668
35°	15536	15429	15234
40°	15039	14944	14773
45°	14628	14525	14381
50°	14103	14013	13877
55°	13373	13196	13094
60°	12174	11825	11767
65°	10725	10278	10244
70°	9259	8878	8878
75°	7971	7858	7746
80°	7027	7112	6944
85°	5499	6002	6002



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	339.8	2.6
10°-20°	970.2	7.5
20°-30°	1453.2	11.2
30°-40°	1704.5	13.2
40°-50°	1709.8	13.2
50°-60°	1458.6	11.3
60°-70°	951.3	7.3
70°-80°	477.3	3.7
80°-90°	134.3	1.0
90°-100°	276.5	2.1
100°-110°	751.0	5.8
110°-120°	772.2	6.0
120°-130°	617.4	4.8
130°-140°	485.1	3.7
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°	2763.1	21.3
0°-40°	4467.6	34.5
0°-60°	7636.0	58.9
0°-90°	9198.9	71.0
90°-120°	1799.7	13.9
90°-150°	3274.1	25.3
90°-180°	3760.0	29.0
0°-180°	12959.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3593	3593	3593	3593	3593	
5°	3606	3572	3584	3571	3571	342
15°	3467	3433	3448	3436	3429	978
25°	3193	3156	3171	3143	3140	1468
35°	2759	2731	2740	2708	2705	1723
45°	2242	2227	2226	2204	2204	1726
55°	1663	1657	1641	1631	1628	1478
65°	982	964	942	935	938	981
75°	447	447	441	438	435	485
85°	104	113	113	113	113	122
90°	2	7	13	17	17	7
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	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3593.2	3593.2	3593.2	3593.2	3593.2
2.5°	3615.9	3586.3	3593.2	3587.8	3573.0
5°	3605.8	3571.9	3583.8	3571.2	3571.2
7.5°	3581.2	3544.3	3556.0	3543.4	3542.8
10°	3558.6	3521.6	3533.4	3520.7	3517.6
12.5°	3525.8	3488.9	3503.1	3488.0	3487.4
15°	3467.2	3433.4	3448.3	3435.6	3429.4
17.5°	3401.1	3364.2	3382.2	3364.5	3362.1
20°	3350.7	3313.8	3331.8	3306.6	3306.6
22.5°	3290.3	3253.3	3273.9	3241.1	3241.1
25°	3193.3	3156.3	3171.2	3142.8	3139.7
27.5°	3078.0	3041.7	3057.2	3025.1	3024.5
30°	2994.9	2961.0	2979.1	2944.4	2941.3
32.5°	2904.2	2872.8	2885.9	2851.2	2848.1
35°	2758.7	2731.0	2739.8	2708.2	2705.1
37.5°	2605.6	2577.3	2587.4	2560.2	2559.0
40°	2497.3	2478.8	2481.5	2459.4	2453.2
42.5°	2396.5	2375.6	2378.3	2356.2	2354.9
45°	2242.2	2226.8	2226.5	2204.4	2204.4
47.5°	2078.5	2066.8	2063.3	2045.1	2044.4
50°	1965.1	1955.8	1952.5	1936.7	1933.6
52.5°	1846.7	1842.4	1831.6	1818.3	1817.7
55°	1662.8	1656.6	1640.7	1631.2	1628.1
57.5°	1463.1	1450.8	1432.9	1419.1	1421.5
60°	1319.5	1307.2	1281.7	1275.4	1275.4
62.5°	1180.9	1166.2	1140.6	1131.9	1136.9
65°	982.5	964.1	941.6	935.4	938.5
67.5°	802.4	785.8	761.5	761.4	759.0
70°	686.5	677.3	658.2	658.2	658.2
72.5°	583.2	578.9	565.0	564.9	562.4
75°	447.2	447.2	440.9	437.7	434.6
77.5°	335.1	336.3	333.2	329.9	324.4
80°	264.5	270.7	267.7	264.5	261.4
82.5°	199.0	205.2	204.7	199.0	198.4
85°	103.9	113.2	113.4	113.4	113.4
87.5°	28.1	39.0	42.9	43.7	46.2
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

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**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)