

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: P563352

Luminaire Tested: **SQ4-PP3-050U-125D-835-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563352  
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-835-1D-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: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

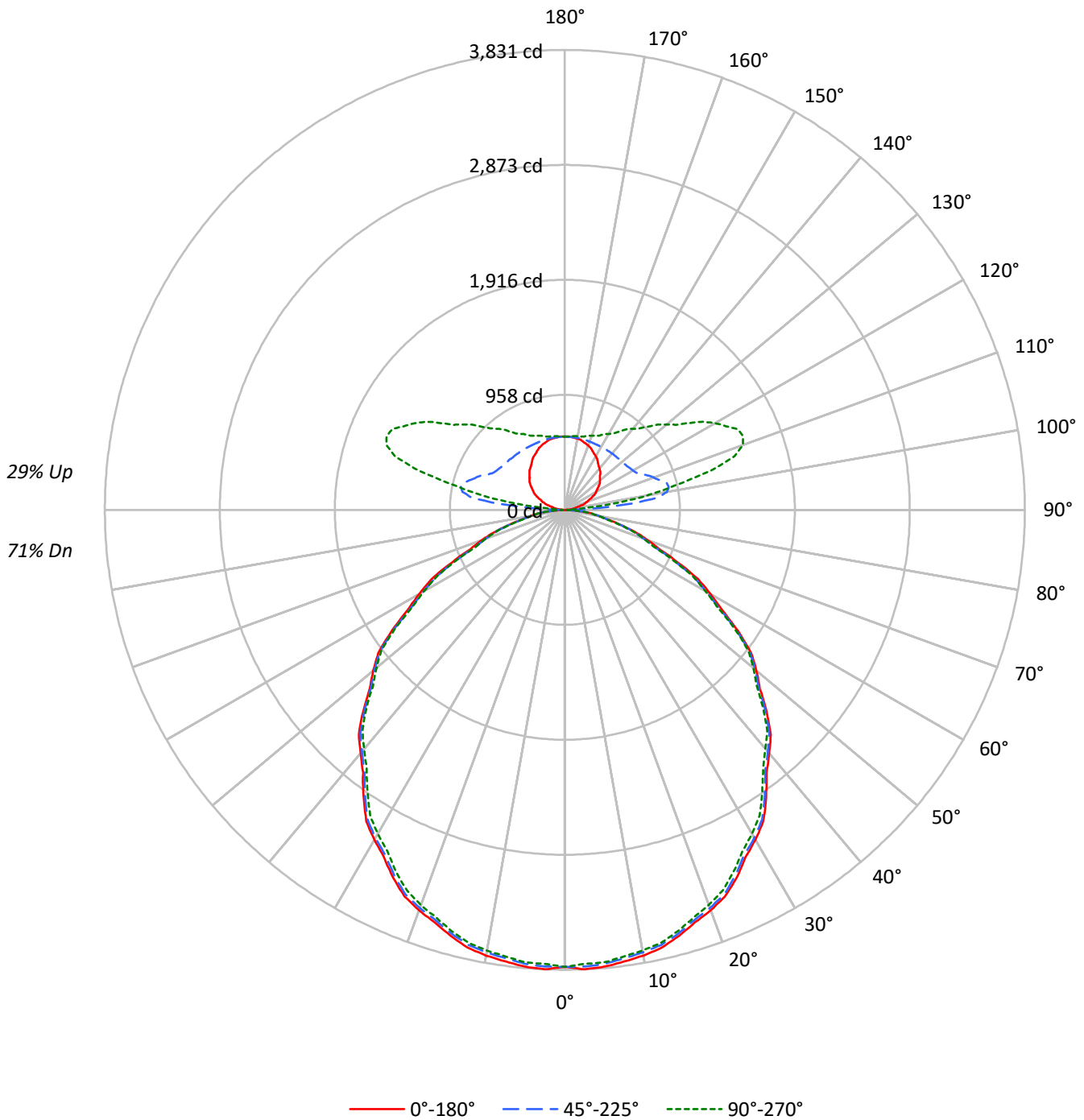
Lumens per Lamp: N/A  
Luminaire Lumens: 13729.5 lumens  
Efficiency: N/A  
Efficacy: 119.6 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Semi-Direct

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°	17561	17561	17561
5°	17690	17582	17520
10°	17660	17535	17457
15°	17543	17448	17352
20°	17427	17329	17198
25°	17220	17101	16931
30°	16901	16812	16599
35°	16459	16346	16139
40°	15932	15832	15651
45°	15498	15389	15237
50°	14941	14845	14701
55°	14168	13980	13873
60°	12897	12528	12466
65°	11362	10889	10852
70°	9810	9405	9405
75°	8445	8325	8206
80°	7446	7534	7356
85°	5828	6357	6357



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	360.0	2.6
10°-20°	1027.8	7.5
20°-30°	1539.5	11.2
30°-40°	1805.8	13.2
40°-50°	1811.5	13.2
50°-60°	1545.3	11.3
60°-70°	1007.8	7.3
70°-80°	505.6	3.7
80°-90°	142.3	1.0
90°-100°	292.9	2.1
100°-110°	795.7	5.8
110°-120°	818.1	6.0
120°-130°	654.1	4.8
130°-140°	513.9	3.7
140°-150°	394.1	2.9
150°-160°	283.4	2.1
160°-170°	173.3	1.3
170°-180°	58.4	0.4
0°-30°	2927.3	21.3
0°-40°	4733.2	34.5
0°-60°	8089.9	58.9
0°-90°	9745.6	71.0
90°-120°	1906.7	13.9
90°-150°	3468.7	25.3
90°-180°	3984.0	29.0
0°-180°	13729.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3807	3807	3807	3807	3807	
5°	3820	3784	3797	3783	3783	363
15°	3673	3638	3653	3640	3633	1036
25°	3383	3344	3360	3330	3326	1556
35°	2923	2893	2903	2869	2866	1826
45°	2376	2359	2359	2336	2336	1829
55°	1762	1755	1738	1728	1725	1566
65°	1041	1021	998	991	994	1039
75°	474	474	467	464	460	514
85°	110	120	120	120	120	129
90°	2	8	14	18	18	7
95°	43	160	510	222	149	46
105°	141	220	875	1332	1254	150
115°	251	305	700	1393	1587	248
125°	345	393	634	1068	1260	308
135°	416	462	616	870	981	322
145°	481	515	608	739	795	302
155°	543	563	604	664	683	251
165°	589	596	606	632	634	166
175°	610	612	608	616	614	58
180°	610	610	610	610	610	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3806.8	3806.8	3806.8	3806.8	3806.8
2.5°	3830.8	3799.5	3806.8	3801.1	3785.4
5°	3820.1	3784.3	3796.8	3783.4	3783.4
7.5°	3794.1	3755.0	3767.4	3754.1	3753.4
10°	3770.1	3730.9	3743.4	3730.0	3726.7
12.5°	3735.4	3696.2	3711.4	3695.3	3694.7
15°	3673.3	3637.5	3653.3	3639.8	3633.3
17.5°	3603.3	3564.1	3583.3	3564.5	3561.9
20°	3549.9	3510.7	3529.9	3503.2	3503.2
22.5°	3485.8	3446.7	3468.5	3433.8	3433.8
25°	3383.1	3343.9	3359.7	3329.6	3326.4
27.5°	3261.0	3222.5	3238.9	3204.9	3204.2
30°	3172.9	3137.0	3156.2	3119.4	3116.2
32.5°	3076.8	3043.5	3057.4	3020.7	3017.4
35°	2922.7	2893.3	2902.6	2869.2	2865.9
37.5°	2760.5	2730.5	2741.2	2712.4	2711.1
40°	2645.7	2626.2	2629.1	2605.6	2599.0
42.5°	2539.0	2516.8	2519.6	2496.2	2494.9
45°	2375.5	2359.2	2358.8	2335.5	2335.5
47.5°	2202.0	2189.6	2186.0	2166.6	2166.0
50°	2081.9	2072.1	2068.5	2051.8	2048.5
52.5°	1956.4	1951.9	1940.4	1926.4	1925.8
55°	1761.6	1755.1	1738.2	1728.2	1724.9
57.5°	1550.1	1537.0	1518.0	1503.4	1506.0
60°	1397.9	1384.9	1357.9	1351.2	1351.2
62.5°	1251.1	1235.5	1208.4	1199.2	1204.4
65°	1040.9	1021.4	997.6	991.0	994.2
67.5°	850.1	832.5	806.7	806.7	804.1
70°	727.3	717.5	697.3	697.3	697.3
72.5°	617.9	613.3	598.5	598.5	595.9
75°	473.8	473.8	467.1	463.7	460.4
77.5°	355.0	356.3	353.0	349.5	343.6
80°	280.3	286.8	283.6	280.2	276.9
82.5°	210.9	217.4	216.9	210.8	210.2
85°	110.1	119.9	120.1	120.1	120.1
87.5°	29.8	41.3	45.5	46.3	48.9
90°	2.0	7.7	13.7	17.7	17.7
92.5°	17.7	80.2	139.3	59.8	50.6
95°	43.2	160.2	510.1	222.0	149.1
97.5°	71.4	176.9	782.0	608.4	427.3
100°	90.2	188.1	865.2	877.1	708.2
102.5°	109.1	199.2	887.2	1084.7	935.8
105°	141.3	219.9	875.0	1332.3	1253.6
107.5°	174.6	244.1	824.4	1460.1	1482.0
110°	198.2	261.5	786.7	1485.3	1579.3

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	<i>218.6</i>	278.8	749.1	1464.4	1606.0
115°	<i>251.1</i>	304.8	700.4	1393.4	1587.2
117.5°	<i>281.7</i>	333.1	669.4	1292.7	1511.0
120°	<i>302.1</i>	352.0	655.3	1225.2	1442.0
122.5°	<i>319.4</i>	369.3	645.9	1157.6	1366.7
125°	<i>345.3</i>	393.3	633.7	1067.7	1259.5
127.5°	<i>368.4</i>	416.0	627.0	999.6	1164.2
130°	<i>382.6</i>	428.6	623.9	956.8	1104.5
132.5°	<i>396.7</i>	442.7	620.7	920.4	1051.2
135°	<i>415.9</i>	462.0	616.0	869.7	980.9
137.5°	<i>436.7</i>	478.5	613.7	824.9	918.6
140°	<i>449.3</i>	489.6	612.1	796.5	880.9
142.5°	<i>461.8</i>	499.0	610.5	774.2	844.8
145°	<i>480.7</i>	515.2	608.2	738.9	794.6
147.5°	<i>501.9</i>	531.4	606.2	711.2	754.9
150°	<i>516.0</i>	540.9	606.2	695.3	729.8
152.5°	<i>527.0</i>	548.8	604.7	681.0	709.4
155°	<i>543.4</i>	562.6	604.3	663.6	682.7
157.5°	<i>559.5</i>	574.5	604.3	651.7	666.3
160°	<i>568.9</i>	582.4	604.3	643.8	655.3
162.5°	<i>578.4</i>	588.7	605.8	637.4	645.9
165°	<i>588.6</i>	596.2	606.2	631.8	633.7
167.5°	<i>599.2</i>	603.0	608.2	625.1	626.6
170°	<i>602.3</i>	606.1	608.2	621.9	621.9
172.5°	<i>605.4</i>	607.7	608.2	618.8	618.8
175°	<i>610.1</i>	612.1	608.2	616.0	614.1
177.5°	<i>611.7</i>	611.7	607.0	613.2	610.1
180°	<i>610.1</i>	610.1	610.1	610.1	610.1

(END OF REPORT)