

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: P563351

Luminaire Tested: **SQ4-PP3-050U-125D-835-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563351  
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-6  
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**

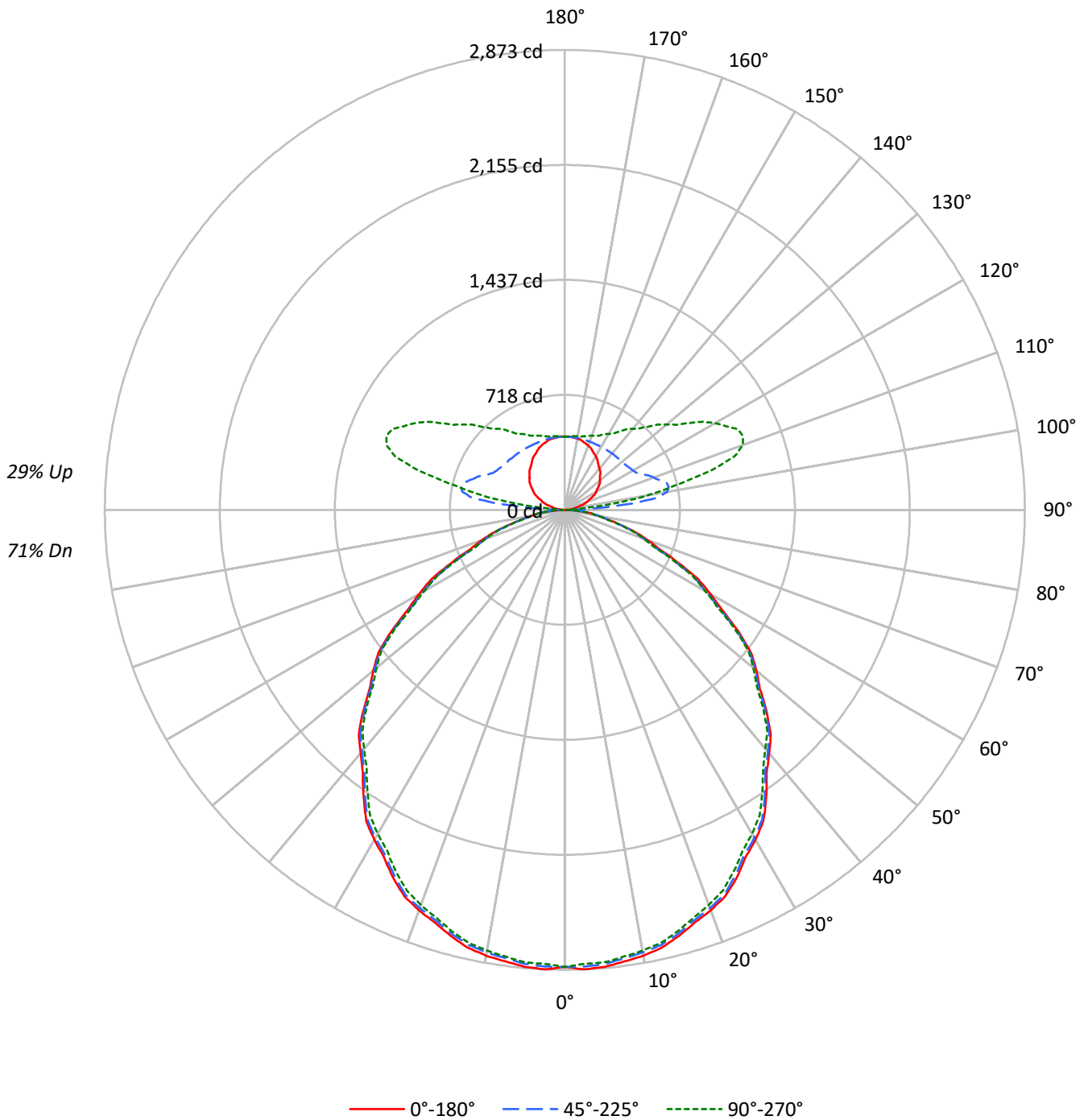
Lumens per Lamp: N/A  
Luminaire Lumens: 10297.1 lumens  
Efficiency: N/A  
Efficacy: 117.3 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 87.8  
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	16813	16599
35°	16459	16347	16140
40°	15933	15832	15652
45°	15497	15389	15236
50°	14941	14845	14702
55°	14168	13980	13873
60°	12898	12528	12466
65°	11362	10889	10853
70°	9810	9405	9405
75°	8444	8325	8206
80°	7446	7534	7357
85°	5829	6359	6359



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	270.0	2.6
10°-20°	770.9	7.5
20°-30°	1154.7	11.2
30°-40°	1354.4	13.2
40°-50°	1358.6	13.2
50°-60°	1159.0	11.3
60°-70°	755.9	7.3
70°-80°	379.2	3.7
80°-90°	106.7	1.0
90°-100°	219.7	2.1
100°-110°	596.8	5.8
110°-120°	613.6	6.0
120°-130°	490.6	4.8
130°-140°	385.5	3.7
140°-150°	295.6	2.9
150°-160°	212.5	2.1
160°-170°	130.0	1.3
170°-180°	43.8	0.4
0°-30°	2195.5	21.3
0°-40°	3549.9	34.5
0°-60°	6067.5	58.9
0°-90°	7309.2	71.0
90°-120°	1430.0	13.9
90°-150°	2601.6	25.3
90°-180°	2988.0	29.0
0°-180°	10297.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2855	2855	2855	2855	2855	
5°	2865	2838	2848	2838	2838	272
15°	2755	2728	2740	2730	2725	777
25°	2537	2508	2520	2497	2495	1167
35°	2192	2170	2177	2152	2150	1369
45°	1782	1769	1769	1752	1752	1372
55°	1321	1316	1304	1296	1294	1174
65°	781	766	748	743	746	779
75°	355	355	350	348	345	385
85°	83	90	90	90	90	97
90°	2	6	10	13	13	5
95°	32	120	383	166	112	34
105°	106	165	656	999	940	113
115°	188	229	525	1045	1190	186
125°	259	295	475	801	945	231
135°	312	346	462	652	736	241
145°	360	386	456	554	596	226
155°	408	422	453	498	512	188
165°	441	447	455	474	475	125
175°	458	459	456	462	461	43
180°	458	458	458	458	458	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2855.1	2855.1	2855.1	2855.1	2855.1
2.5°	2873.1	2849.6	2855.1	2850.8	2839.1
5°	2865.1	2838.2	2847.6	2837.6	2837.6
7.5°	2845.6	2816.2	2825.6	2815.5	2815.1
10°	2827.6	2798.2	2807.6	2797.5	2795.0
12.5°	2801.5	2772.2	2783.5	2771.5	2771.0
15°	2755.0	2728.1	2740.0	2729.9	2725.0
17.5°	2702.5	2673.1	2687.4	2673.4	2671.4
20°	2662.4	2633.1	2647.4	2627.4	2627.4
22.5°	2614.4	2585.0	2601.4	2575.3	2575.3
25°	2537.3	2507.9	2519.8	2497.2	2494.8
27.5°	2445.7	2416.9	2429.2	2403.7	2403.2
30°	2379.7	2352.7	2367.2	2339.6	2337.1
32.5°	2307.6	2282.6	2293.1	2265.5	2263.1
35°	2192.0	2170.0	2177.0	2151.9	2149.5
37.5°	2070.4	2047.9	2055.9	2034.3	2033.3
40°	1984.3	1969.6	1971.8	1954.2	1949.3
42.5°	1904.2	1887.6	1889.7	1872.2	1871.2
45°	1781.6	1769.4	1769.1	1751.6	1751.6
47.5°	1651.5	1642.2	1639.5	1625.0	1624.5
50°	1561.4	1554.1	1551.4	1538.8	1536.4
52.5°	1467.3	1463.9	1455.3	1444.8	1444.3
55°	1321.2	1316.3	1303.7	1296.1	1293.7
57.5°	1162.6	1152.8	1138.5	1127.6	1129.5
60°	1048.5	1038.7	1018.4	1013.4	1013.4
62.5°	938.4	926.6	906.3	899.4	903.3
65°	780.7	766.0	748.2	743.2	745.7
67.5°	637.6	624.4	605.1	605.0	603.0
70°	545.5	538.2	523.0	523.0	523.0
72.5°	463.4	460.0	448.9	448.9	446.9
75°	355.3	355.3	350.3	347.8	345.3
77.5°	266.2	267.2	264.7	262.1	257.7
80°	210.2	215.1	212.7	210.1	207.7
82.5°	158.1	163.0	162.6	158.1	157.6
85°	82.6	89.9	90.1	90.1	90.1
87.5°	22.3	31.0	34.1	34.7	36.7
90°	1.5	5.8	10.3	13.2	13.2
92.5°	13.2	60.1	104.5	44.9	38.0
95°	32.4	120.1	382.6	166.5	111.8
97.5°	53.6	132.7	586.5	456.3	320.5
100°	67.7	141.1	648.9	657.8	531.2
102.5°	81.8	149.4	665.4	813.5	701.9
105°	105.9	164.9	656.3	999.2	940.2
107.5°	131.0	183.0	618.3	1095.1	1111.5
110°	148.6	196.1	590.0	1114.0	1184.5

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	163.9	209.1	561.8	1098.3	1204.5
115°	188.3	228.6	525.3	1045.1	1190.4
117.5°	211.3	249.9	502.0	969.6	1133.3
120°	226.6	264.0	491.5	918.9	1081.5
122.5°	239.5	277.0	484.4	868.2	1025.0
125°	259.0	294.9	475.3	800.8	944.7
127.5°	276.3	312.0	470.3	749.7	873.1
130°	286.9	321.5	467.9	717.6	828.4
132.5°	297.5	332.1	465.6	690.3	788.4
135°	311.9	346.5	462.0	652.3	735.7
137.5°	327.5	358.9	460.3	618.7	688.9
140°	337.0	367.2	459.1	597.4	660.7
142.5°	346.4	374.3	457.9	580.6	633.6
145°	360.5	386.4	456.1	554.2	595.9
147.5°	376.4	398.5	454.7	533.4	566.2
150°	387.0	405.7	454.7	521.5	547.4
152.5°	395.2	411.6	453.5	510.8	532.1
155°	407.6	422.0	453.2	497.7	512.1
157.5°	419.6	430.9	453.2	488.8	499.7
160°	426.7	436.8	453.2	482.8	491.5
162.5°	433.8	441.5	454.4	478.1	484.4
165°	441.4	447.2	454.7	473.8	475.3
167.5°	449.4	452.2	456.1	468.8	470.0
170°	451.7	454.6	456.1	466.4	466.4
172.5°	454.1	455.8	456.1	464.1	464.1
175°	457.6	459.1	456.1	462.0	460.6
177.5°	458.8	458.8	455.3	459.9	457.6
180°	457.6	457.6	457.6	457.6	457.6

(END OF REPORT)