

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: P564695

Luminaire Tested: **SQ4-PW1-050U-125D-835-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564695  
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-835-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

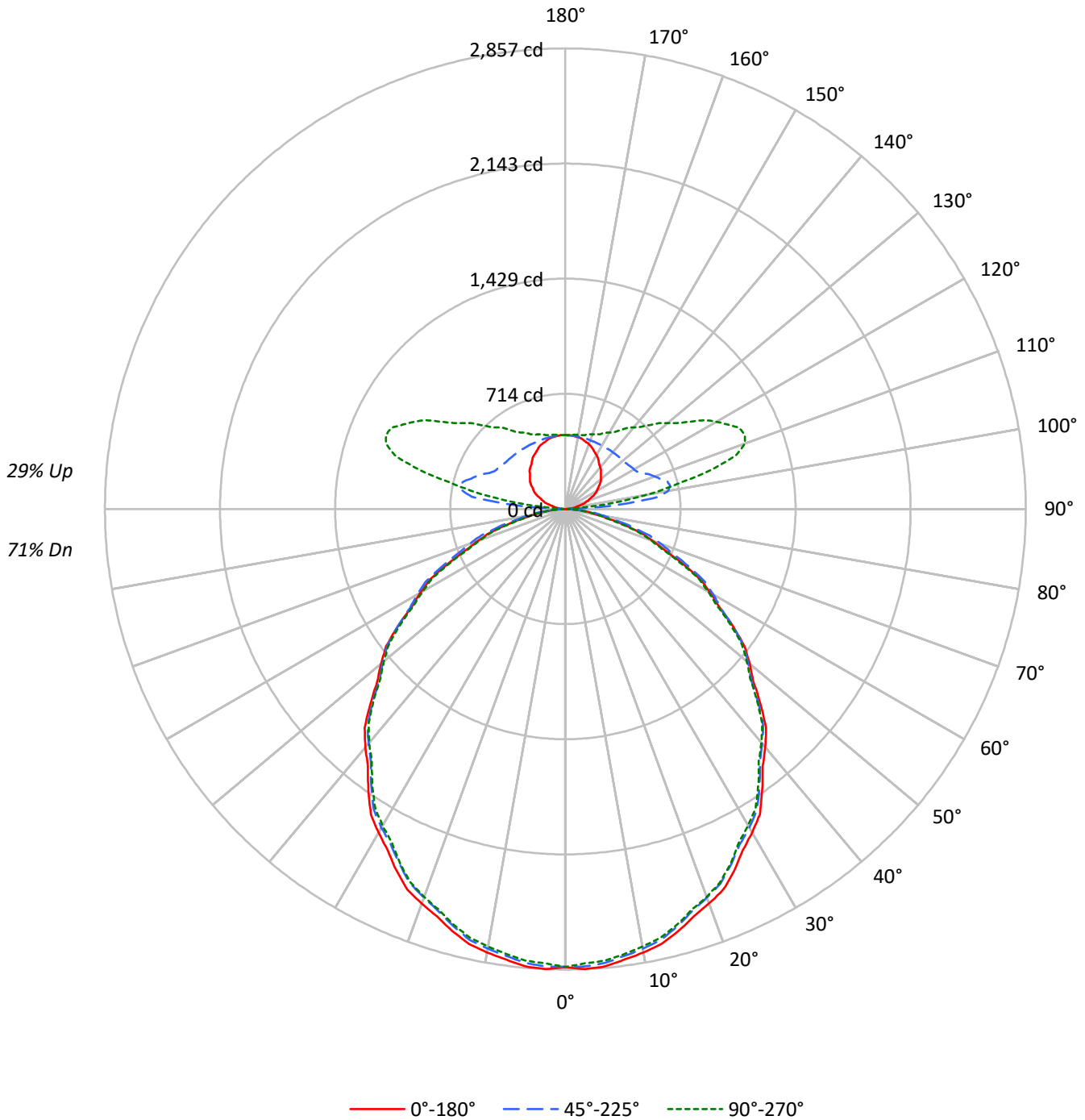
Lumens per Lamp: N/A  
Luminaire Lumens: 10217.3 lumens  
Efficiency: N/A  
Efficacy: 116.4 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Direct

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	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°	17473	17473	17473
5°	17586	17447	17370
10°	17445	17305	17211
15°	17261	17069	17006
20°	17054	16792	16759
25°	16816	16511	16460
30°	16461	16212	16105
35°	15993	15768	15674
40°	15494	15253	15193
45°	14892	14695	14630
50°	14274	14154	14059
55°	13608	13608	13393
60°	12778	13024	12562
65°	11693	12276	11402
70°	10308	11297	10037
75°	8803	10112	8565
80°	6826	8512	6914
85°	4418	6535	5829



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	267.5	2.6
10°-20°	755.2	7.4
20°-30°	1120.3	11.0
30°-40°	1310.8	12.8
40°-50°	1305.0	12.8
50°-60°	1126.9	11.0
60°-70°	811.2	7.9
70°-80°	425.4	4.2
80°-90°	107.2	1.0
90°-100°	219.7	2.2
100°-110°	596.8	5.8
110°-120°	613.6	6.0
120°-130°	490.6	4.8
130°-140°	385.5	3.8
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°	2143.0	21.0
0°-40°	3453.8	33.8
0°-60°	5885.6	57.6
0°-90°	7229.4	70.8
90°-120°	1430.0	14.0
90°-150°	2601.6	25.5
90°-180°	2988.0	29.2
0°-180°	10217.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2841	2841	2841	2841	2841	
5°	2848	2816	2826	2818	2813	270
15°	2711	2676	2681	2676	2671	764
25°	2478	2436	2433	2418	2425	1139
35°	2130	2101	2100	2080	2087	1332
45°	1712	1697	1689	1684	1682	1321
55°	1269	1266	1269	1251	1249	1132
65°	803	828	844	810	783	796
75°	370	405	426	397	360	397
85°	63	82	93	88	83	83
90°	2	6	10	13	13	4
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°	2840.8	2840.8	2840.8	2840.8	2840.8
2.5°	2856.8	2833.3	2840.8	2834.4	2820.7
5°	2848.3	2816.5	2825.7	2818.1	2813.2
7.5°	2819.2	2789.9	2796.7	2788.6	2785.7
10°	2793.2	2763.8	2770.7	2760.6	2755.7
12.5°	2763.2	2731.8	2738.6	2728.6	2725.6
15°	2710.6	2676.3	2680.6	2675.5	2670.6
17.5°	2649.5	2614.8	2615.5	2607.5	2606.5
20°	2605.5	2568.8	2565.4	2555.5	2560.4
22.5°	2557.4	2518.8	2515.4	2501.5	2508.4
25°	2477.8	2436.2	2432.8	2417.9	2425.3
27.5°	2385.7	2344.6	2344.7	2323.8	2331.7
30°	2317.7	2278.5	2282.6	2257.8	2267.6
32.5°	2245.6	2210.3	2212.5	2187.7	2197.5
35°	2129.9	2100.6	2099.9	2080.1	2087.4
37.5°	2011.8	1985.9	1981.8	1970.3	1972.3
40°	1929.7	1907.7	1899.7	1892.2	1892.2
42.5°	1843.6	1823.5	1815.6	1810.0	1808.1
45°	1712.0	1697.3	1689.4	1684.4	1681.9
47.5°	1581.8	1568.1	1561.3	1557.7	1555.3
50°	1491.7	1481.9	1479.2	1471.6	1469.2
52.5°	1401.6	1395.7	1393.1	1383.5	1381.1
55°	1269.0	1266.5	1269.0	1251.4	1248.9
57.5°	1130.8	1134.7	1142.8	1119.1	1113.3
60°	1038.7	1048.5	1058.7	1031.0	1021.2
62.5°	944.6	960.2	974.6	942.8	929.1
65°	803.4	827.9	843.5	810.3	783.4
67.5°	667.3	697.6	716.3	680.6	650.2
70°	573.2	607.4	628.2	592.4	558.1
72.5°	491.1	529.2	546.1	512.3	478.0
75°	370.4	404.7	425.5	397.1	360.4
77.5°	262.8	295.1	312.4	287.6	257.3
80°	192.7	227.0	240.3	219.7	195.2
82.5°	136.7	165.0	174.2	161.8	145.2
85°	62.6	82.1	92.6	87.5	82.6
87.5°	16.3	30.9	40.1	40.7	42.7
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)