

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: P562607

Luminaire Tested: **SQ4-PC3-050U-050D-835-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562607  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, G2-2106-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PC3-050U-050D-835-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

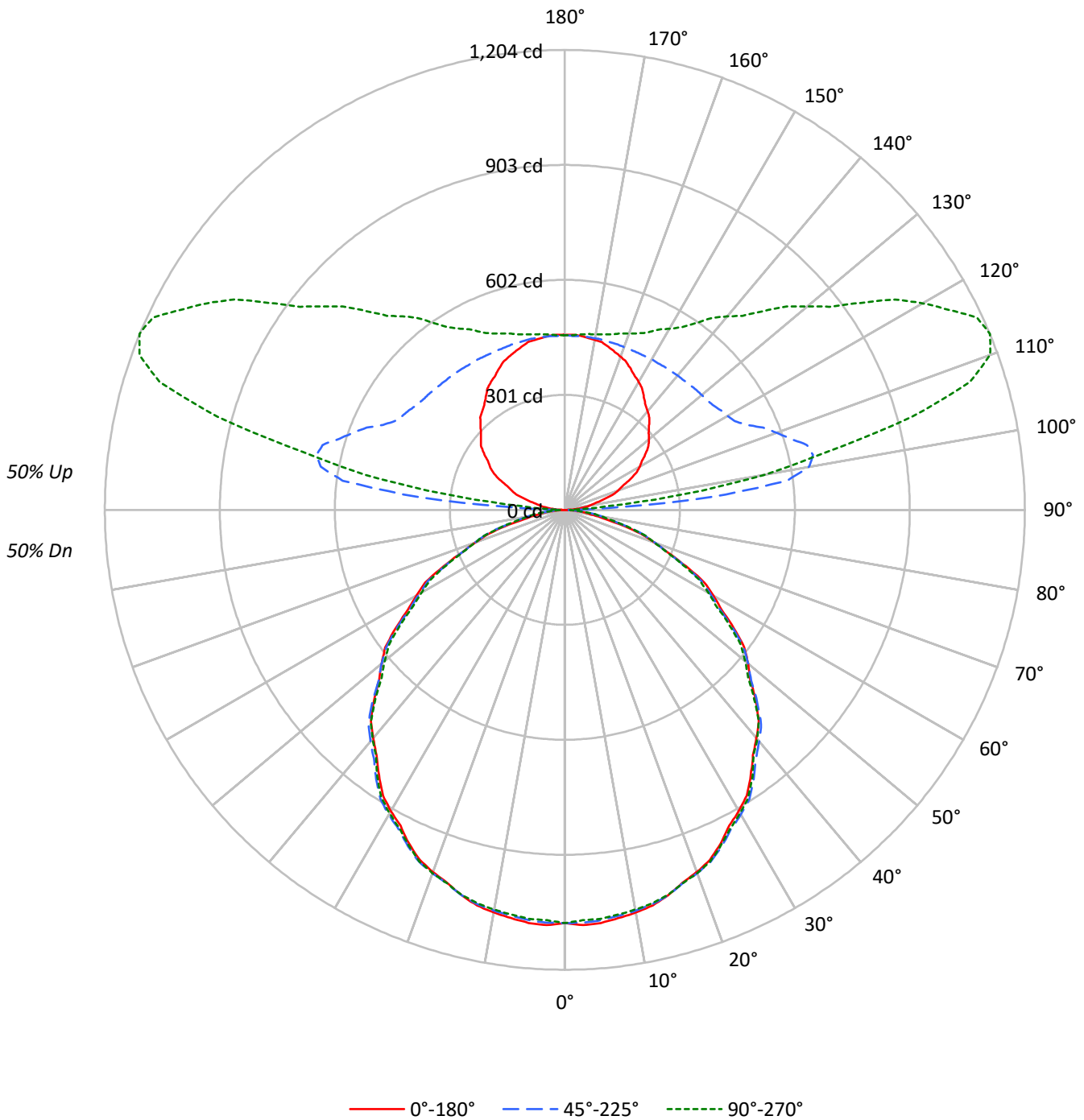
Lumens per Lamp: N/A  
Luminaire Lumens: 5941.6 lumens  
Efficiency: N/A  
Efficacy: 132.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 44.8  
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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	98	93	90	86	90	86	83	80	73	71	68	61	59	58	49	48	47	42
2	89	82	76	70	82	75	70	66	64	60	57	53	51	48	44	42	40	35
3	81	72	64	59	75	66	60	55	56	52	48	47	44	41	39	36	34	30
4	74	63	56	49	68	59	52	46	50	45	41	42	38	35	34	32	29	25
5	68	56	48	42	63	52	45	40	45	39	35	38	33	30	31	28	25	22
6	63	51	42	37	58	47	40	35	40	35	30	34	30	26	28	25	22	19
7	58	46	38	32	53	42	35	30	36	31	27	31	26	23	26	22	20	17
8	54	41	34	28	49	39	32	27	33	28	24	28	24	21	23	20	18	15
9	50	38	30	25	46	35	28	24	30	25	21	26	22	19	22	18	16	14
10	47	35	27	23	43	32	26	21	28	23	19	24	20	17	20	17	14	12

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

	0°	45°	90°
0°	6653	6653	6653
5°	6703	6660	6635
10°	6687	6655	6637
15°	6652	6652	6645
20°	6608	6627	6627
25°	6545	6593	6572
30°	6466	6544	6516
35°	6370	6467	6422
40°	6264	6353	6289
45°	6151	6194	6098
50°	5989	5989	5894
55°	5799	5724	5638
60°	5520	5409	5322
65°	5101	4999	4956
70°	4467	4503	4485
75°	3593	3976	4000
80°	2554	3369	3404
85°	1553	2830	2830



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.4	1.7
10°-20°	293.8	4.9
20°-30°	444.9	7.5
30°-40°	533.3	9.0
40°-50°	543.8	9.2
50°-60°	474.7	8.0
60°-70°	339.8	5.7
70°-80°	175.0	2.9
80°-90°	46.0	0.8
90°-100°	219.7	3.7
100°-110°	596.8	10.0
110°-120°	613.6	10.3
120°-130°	490.6	8.3
130°-140°	385.5	6.5
140°-150°	295.6	5.0
150°-160°	212.5	3.6
160°-170°	130.0	2.2
170°-180°	43.8	0.7
0°-30°	841.0	14.2
0°-40°	1374.3	23.1
0°-60°	2392.8	40.3
0°-90°	2953.7	49.7
90°-120°	1430.0	24.1
90°-150°	2601.6	43.8
90°-180°	2988.0	50.3
0°-180°	5941.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1082	1082	1082	1082	1082	
5°	1086	1075	1079	1076	1075	103
15°	1045	1036	1045	1044	1044	295
25°	964	958	972	968	968	444
35°	848	846	861	855	855	531
45°	707	705	712	703	701	544
55°	541	534	534	526	526	482
65°	350	343	344	340	340	347
75°	151	158	167	168	168	163
85°	22	34	40	41	40	30
90°	2	6	10	13	13	3
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°	1081.6	1081.6	1081.6	1081.6	1081.6
2.5°	1088.0	1078.6	1081.6	1079.1	1075.2
5°	1085.6	1074.9	1078.6	1075.6	1074.6
7.5°	1077.8	1067.0	1072.0	1070.0	1069.0
10°	1070.6	1059.8	1065.6	1063.6	1062.6
12.5°	1061.0	1051.0	1057.6	1055.6	1055.4
15°	1044.6	1035.8	1044.6	1044.5	1043.6
17.5°	1023.9	1015.9	1025.3	1025.9	1025.3
20°	1009.5	1000.7	1012.5	1011.5	1012.5
22.5°	991.9	984.6	997.3	994.7	995.7
25°	964.4	957.6	971.5	968.4	968.4
27.5°	932.0	927.1	942.2	939.0	939.0
30°	910.4	905.5	921.4	917.4	917.4
32.5°	886.3	883.0	898.1	893.3	893.3
35°	848.3	846.3	861.3	855.3	855.3
37.5°	809.0	807.2	820.8	813.6	811.2
40°	780.2	779.2	791.2	783.2	783.2
42.5°	751.3	750.3	760.7	751.1	751.1
45°	707.1	705.1	712.1	703.0	701.0
47.5°	658.8	656.8	661.2	651.4	650.4
50°	625.9	624.0	625.9	616.9	615.9
52.5°	592.3	588.8	589.1	580.1	579.9
55°	540.8	534.0	533.8	525.8	525.8
57.5°	486.3	477.3	478.1	471.3	470.3
60°	448.7	438.9	439.7	433.6	432.6
62.5°	411.8	400.5	402.8	396.0	395.8
65°	350.5	342.7	343.5	340.5	340.5
67.5°	291.6	284.4	289.6	287.2	287.0
70°	248.4	243.5	250.4	250.4	249.4
72.5°	208.3	208.1	216.7	216.7	217.3
75°	151.2	158.1	167.3	168.3	168.3
77.5°	101.0	113.1	123.2	123.6	123.4
80°	72.1	85.8	95.1	97.1	96.1
82.5°	48.9	63.4	71.1	73.1	72.1
85°	22.0	33.8	40.1	41.0	40.1
87.5°	6.7	14.6	18.1	18.6	17.1
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)