

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: P561532

Luminaire Tested: **SQ4-PC3-075U-075D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P561532  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-PC3-075U-075D-92765-1D-UNV-STD-W-4 (3500K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

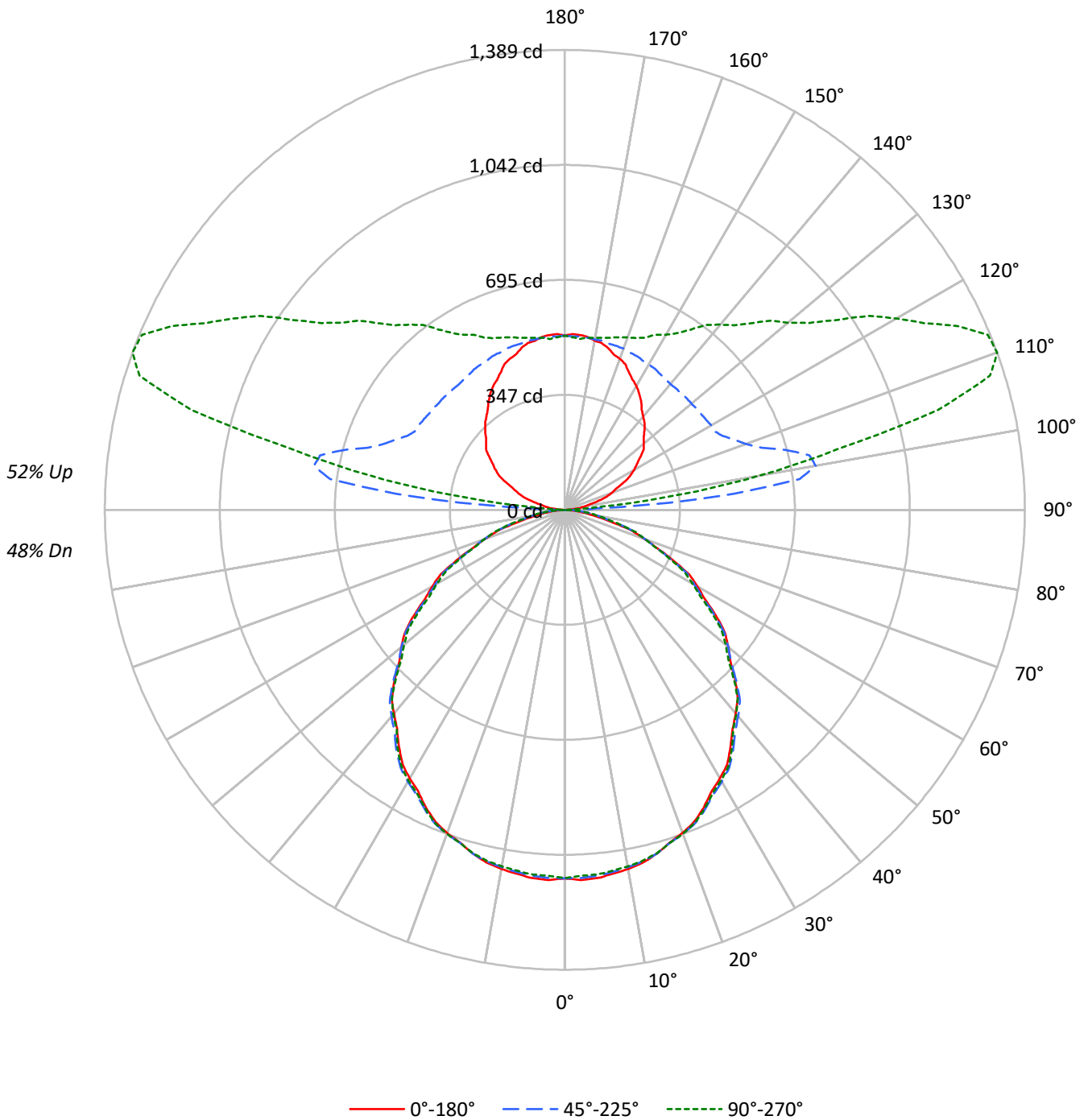
Lumens per Lamp: N/A  
Luminaire Lumens: 6304.1 lumens  
Efficiency: N/A  
Efficacy: 113.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 55.6  
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	98	98	98	98	82	82	82	68	68	68	54	54	54	48
1	97	93	89	86	90	86	83	80	72	70	68	60	58	57	48	47	46	41
2	89	81	75	70	81	75	70	65	63	59	56	52	50	47	42	41	39	34
3	81	71	64	58	74	66	60	55	56	51	47	46	43	40	38	35	33	29
4	74	63	55	49	68	58	52	46	50	44	40	41	37	34	34	31	28	25
5	68	56	48	42	62	52	45	40	44	39	35	37	33	30	30	27	25	21
6	62	50	42	37	57	47	40	34	40	34	30	33	29	26	27	24	22	19
7	58	45	38	32	53	42	35	30	36	30	26	30	26	23	25	22	19	17
8	54	41	33	28	49	38	31	27	33	27	23	28	23	20	23	20	17	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	16	13
10	47	34	27	22	43	32	26	21	28	22	19	23	19	16	20	16	14	12

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

	0°	45°	90°
0°	10266	10266	10266
5°	10343	10276	10239
10°	10319	10270	10241
15°	10264	10264	10254
20°	10196	10227	10227
25°	10100	10174	10142
30°	9977	10097	10054
35°	9828	9979	9909
40°	9666	9803	9704
45°	9491	9558	9410
50°	9242	9242	9094
55°	8948	8832	8701
60°	8518	8346	8213
65°	7872	7715	7647
70°	6892	6949	6919
75°	5547	6135	6171
80°	3942	5202	5255
85°	2403	4361	4361



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	105.3	1.7
10°-20°	302.2	4.8
20°-30°	457.6	7.3
30°-40°	548.6	8.7
40°-50°	559.4	8.9
50°-60°	488.3	7.7
60°-70°	349.6	5.5
70°-80°	180.1	2.9
80°-90°	45.5	0.7
90°-100°	239.7	3.8
100°-110°	682.0	10.8
110°-120°	653.4	10.4
120°-130°	517.2	8.2
130°-140°	415.1	6.6
140°-150°	325.0	5.2
150°-160°	237.8	3.8
160°-170°	147.3	2.3
170°-180°	50.0	0.8
0°-30°	865.1	13.7
0°-40°	1413.8	22.4
0°-60°	2461.5	39.0
0°-90°	3036.7	48.2
90°-120°	1575.1	25.0
90°-150°	2832.3	44.9
90°-180°	3267.0	51.8
0°-180°	6304.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1113	1113	1113	1113	1113	
5°	1117	1106	1110	1106	1106	106
15°	1075	1066	1075	1074	1074	303
25°	992	985	999	996	996	457
35°	873	871	886	880	880	546
45°	727	725	732	723	721	560
55°	556	549	549	541	541	496
65°	361	352	353	350	350	357
75°	156	163	172	173	173	168
85°	23	35	41	42	41	31
90°	0	0	0	0	0	2
95°	26	103	464	161	99	30
105°	106	161	695	1228	1167	112
115°	197	238	527	1116	1311	194
125°	278	308	503	835	998	249
135°	340	368	497	705	797	262
145°	401	422	501	610	665	250
155°	458	469	513	552	574	212
165°	506	508	519	530	538	142
175°	530	527	525	522	518	50
180°	526	526	526	526	526	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1112.7	1112.7	1112.7	1112.7	1112.7
2.5°	1119.3	1109.6	1112.7	1110.1	1106.1
5°	1116.8	1105.7	1109.6	1106.5	1105.5
7.5°	1108.8	1097.7	1102.8	1100.7	1099.7
10°	1101.4	1090.3	1096.2	1094.1	1093.1
12.5°	1091.5	1081.2	1088.0	1085.9	1085.7
15°	1074.6	1065.5	1074.6	1074.5	1073.5
17.5°	1053.3	1045.1	1054.8	1055.4	1054.8
20°	1038.5	1029.4	1041.6	1040.6	1041.6
22.5°	1020.4	1012.9	1025.9	1023.3	1024.3
25°	992.1	985.1	999.4	996.3	996.3
27.5°	958.8	953.7	969.3	966.0	966.0
30°	936.5	931.5	947.8	943.7	943.7
32.5°	911.8	908.4	923.9	919.0	919.0
35°	872.6	870.6	886.0	879.8	879.8
37.5°	832.2	830.4	844.4	836.9	834.5
40°	802.6	801.6	813.9	805.7	805.7
42.5°	772.9	771.9	782.6	772.7	772.7
45°	727.4	725.4	732.5	723.2	721.2
47.5°	677.7	675.7	680.2	670.1	669.1
50°	643.9	641.9	643.9	634.6	633.6
52.5°	609.3	605.7	606.0	596.7	596.5
55°	556.3	549.3	549.1	540.9	540.9
57.5°	500.3	491.0	491.8	484.8	483.8
60°	461.6	451.5	452.3	446.1	445.1
62.5°	423.6	412.0	414.4	407.4	407.2
65°	360.6	352.5	353.4	350.3	350.3
67.5°	300.0	292.6	298.0	295.5	295.3
70°	255.5	250.5	257.6	257.5	256.5
72.5°	214.3	214.1	222.9	223.0	223.6
75°	155.6	162.6	172.1	173.1	173.1
77.5°	103.9	116.3	126.7	127.1	126.9
80°	74.2	88.3	97.9	99.9	98.9
82.5°	50.3	65.2	73.1	75.2	74.2
85°	22.7	34.8	41.2	42.2	41.2
87.5°	6.6	13.8	16.5	16.4	14.8
90°	0.0	0.0	0.0	0.0	0.0
92.5°	8.0	42.4	98.4	28.6	21.6
95°	26.0	103.2	464.0	160.6	99.0
97.5°	47.8	120.9	714.6	511.3	350.4
100°	63.0	131.4	769.0	778.9	600.0
102.5°	79.8	142.8	757.0	997.0	840.8
105°	106.0	160.8	695.0	1227.6	1167.0
107.5°	132.6	181.7	622.6	1292.6	1346.6
110°	151.0	197.0	581.0	1267.8	1389.0

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	168.6	212.2	553.0	1208.9	1381.8
115°	197.0	238.1	527.0	1116.4	1311.0
117.5°	222.0	260.5	511.6	1015.3	1221.4
120°	242.0	274.3	510.0	957.5	1155.0
122.5°	258.0	290.3	506.0	906.8	1090.2
125°	278.0	308.3	503.0	834.7	998.0
127.5°	299.8	328.2	501.4	791.7	926.2
130°	311.0	339.4	499.0	761.7	879.0
132.5°	323.0	350.6	499.0	738.3	846.2
135°	340.0	368.4	497.0	705.1	797.0
137.5°	356.0	383.6	496.8	677.0	756.4
140°	368.0	396.4	496.0	653.7	730.0
142.5°	381.6	405.3	498.4	635.2	703.6
145°	401.0	421.5	501.0	610.2	665.0
147.5°	417.6	437.5	505.4	585.1	632.4
150°	432.0	445.7	507.0	576.8	610.0
152.5°	443.2	457.7	508.6	565.5	596.4
155°	458.0	468.8	513.0	551.5	574.0
157.5°	476.4	482.9	514.0	545.2	561.2
160°	486.0	490.9	518.0	540.3	554.0
162.5°	491.6	497.3	518.8	536.2	546.8
165°	506.0	508.0	519.0	530.2	538.0
167.5°	515.8	514.0	523.6	528.7	531.8
170°	519.0	518.0	522.0	523.1	527.0
172.5°	526.2	522.9	524.4	521.5	524.6
175°	530.0	527.1	525.0	521.9	518.0
177.5°	531.6	526.9	524.4	521.2	522.0
180°	526.0	526.0	526.0	526.0	526.0

(END OF REPORT)