

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: P562635

Luminaire Tested: **SQ4-PC3-050U-075D-840-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562635  
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-075D-840-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

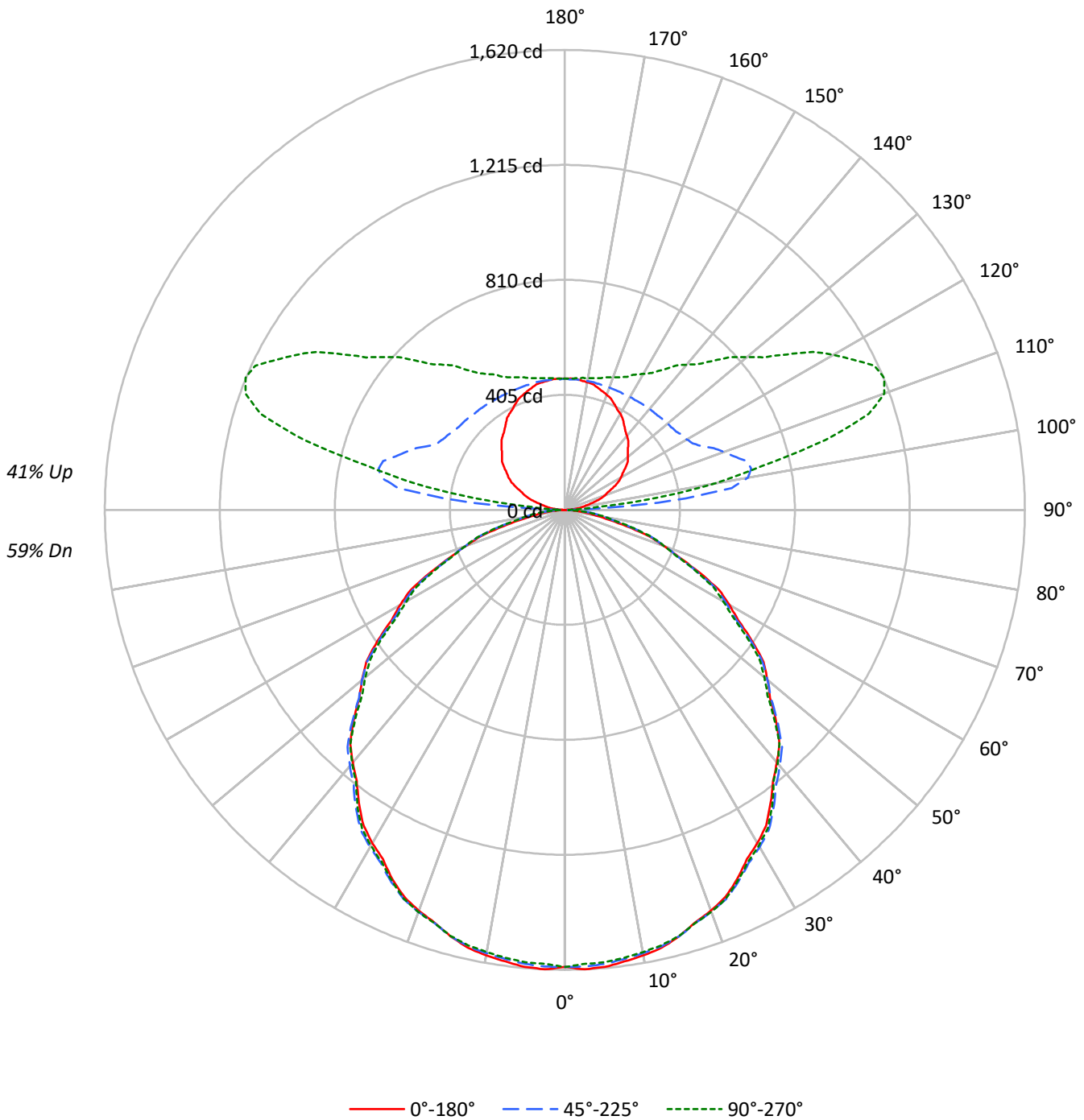
Lumens per Lamp: N/A  
Luminaire Lumens: 7414.3 lumens  
Efficiency: N/A  
Efficacy: 126.7 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 58.5  
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	109	109	109	109	102	102	102	102	88	88	88	76	76	76	65	65	65	59
1	100	96	92	88	93	89	86	83	78	75	73	67	65	64	57	56	55	50
2	91	83	77	72	85	78	73	68	68	64	60	59	56	53	50	48	46	42
3	83	73	66	60	77	69	62	57	60	55	51	52	48	45	45	42	39	36
4	76	65	57	51	71	61	54	48	53	48	43	46	42	38	40	37	34	30
5	70	58	50	43	65	54	47	41	48	42	37	42	37	33	36	32	29	26
6	64	52	44	38	60	49	41	36	43	37	33	38	33	29	33	29	26	23
7	59	47	39	33	55	44	37	32	39	33	29	34	29	26	30	26	23	20
8	55	43	35	29	51	40	33	28	36	30	25	31	26	23	27	23	21	18
9	51	39	31	26	48	37	30	25	33	27	23	29	24	21	25	21	18	16
10	48	36	28	23	45	34	27	22	30	24	21	27	22	19	23	20	17	15

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

	0°	45°	90°
0°	9904	9904	9904
5°	9979	9914	9878
10°	9954	9908	9880
15°	9903	9903	9893
20°	9837	9866	9866
25°	9744	9815	9784
30°	9626	9742	9700
35°	9482	9628	9561
40°	9325	9457	9361
45°	9156	9221	9079
50°	8916	8916	8774
55°	8634	8522	8393
60°	8216	8051	7923
65°	7594	7443	7377
70°	6650	6703	6676
75°	5349	5917	5953
80°	3801	5016	5069
85°	2315	4206	4206



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	152.4	2.1
10°-20°	437.3	5.9
20°-30°	662.3	8.9
30°-40°	794.0	10.7
40°-50°	809.6	10.9
50°-60°	706.7	9.5
60°-70°	505.9	6.8
70°-80°	260.6	3.5
80°-90°	67.7	0.9
90°-100°	221.9	3.0
100°-110°	602.8	8.1
110°-120°	619.7	8.4
120°-130°	495.5	6.7
130°-140°	389.3	5.3
140°-150°	298.5	4.0
150°-160°	214.7	2.9
160°-170°	131.3	1.8
170°-180°	44.2	0.6
0°-30°	1252.0	16.9
0°-40°	2045.9	27.6
0°-60°	3562.2	48.0
0°-90°	4396.4	59.3
90°-120°	1444.4	19.5
90°-150°	2627.7	35.4
90°-180°	3018.0	40.7
0°-180°	7414.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1610	1610	1610	1610	1610	
5°	1616	1600	1606	1601	1600	153
15°	1555	1542	1555	1555	1554	438
25°	1436	1426	1446	1442	1442	661
35°	1263	1260	1282	1273	1273	790
45°	1053	1050	1060	1047	1044	810
55°	805	795	795	783	783	718
65°	522	510	511	507	507	516
75°	225	235	249	250	250	243
85°	33	50	60	61	60	45
90°	2	6	10	13	13	4
95°	33	121	386	168	113	35
105°	107	167	663	1009	950	114
115°	190	231	531	1056	1202	188
125°	262	298	480	809	954	233
135°	315	350	467	659	743	244
145°	364	390	461	560	602	229
155°	412	426	458	503	517	190
165°	446	452	459	479	480	126
175°	462	464	461	467	465	44
180°	462	462	462	462	462	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1610.2	1610.2	1610.2	1610.2	1610.2
2.5°	1619.8	1605.8	1610.2	1606.5	1600.7
5°	1616.2	1600.2	1605.7	1601.2	1599.8
7.5°	1604.6	1588.5	1595.9	1592.9	1591.4
10°	1593.8	1577.8	1586.4	1583.4	1581.9
12.5°	1579.5	1564.6	1574.4	1571.5	1571.2
15°	1555.1	1541.9	1555.1	1555.0	1553.6
17.5°	1524.3	1512.4	1526.4	1527.3	1526.4
20°	1502.9	1489.8	1507.3	1505.9	1507.3
22.5°	1476.6	1465.8	1484.7	1480.8	1482.3
25°	1435.8	1425.6	1446.2	1441.7	1441.7
27.5°	1387.5	1380.2	1402.7	1397.9	1397.9
30°	1355.3	1348.0	1371.7	1365.7	1365.7
32.5°	1319.5	1314.5	1337.1	1329.9	1329.9
35°	1262.8	1259.9	1282.2	1273.3	1273.3
37.5°	1204.4	1201.8	1222.0	1211.2	1207.7
40°	1161.4	1160.0	1177.8	1165.9	1165.9
42.5°	1118.5	1117.1	1132.5	1118.2	1118.2
45°	1052.6	1049.7	1060.1	1046.6	1043.7
47.5°	980.7	977.8	984.3	969.7	968.2
50°	931.8	928.9	931.8	918.4	916.9
52.5°	881.7	876.5	877.0	863.5	863.3
55°	805.1	794.9	794.7	782.7	782.7
57.5°	724.0	710.6	711.8	701.6	700.1
60°	667.9	653.4	654.5	645.5	644.1
62.5°	613.1	596.2	599.7	589.5	589.2
65°	521.8	510.2	511.4	506.9	506.9
67.5°	434.2	423.4	431.2	427.6	427.3
70°	369.8	362.5	372.7	372.7	371.2
72.5°	310.1	309.8	322.6	322.7	323.5
75°	225.1	235.3	249.0	250.5	250.5
77.5°	150.3	168.4	183.4	184.0	183.7
80°	107.3	127.8	141.6	144.6	143.1
82.5°	72.8	94.3	105.9	108.8	107.3
85°	32.8	50.3	59.6	61.1	59.6
87.5°	9.8	21.2	25.9	26.5	24.1
90°	1.5	5.8	10.4	13.4	13.4
92.5°	13.4	60.8	105.5	45.3	38.3
95°	32.7	121.3	386.4	168.2	113.0
97.5°	54.1	134.0	592.4	460.9	323.7
100°	68.4	142.5	655.4	664.4	536.5
102.5°	82.6	150.9	672.1	821.7	708.9
105°	107.0	166.6	662.9	1009.3	949.7
107.5°	132.3	184.9	624.5	1106.1	1122.7
110°	150.1	198.1	596.0	1125.2	1196.4

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	165.6	211.2	567.4	1109.4	1216.6
115°	190.2	230.9	530.6	1055.6	1202.4
117.5°	213.4	252.4	507.1	979.3	1144.7
120°	228.9	266.7	496.4	928.2	1092.4
122.5°	242.0	279.7	489.3	876.9	1035.3
125°	261.6	297.9	480.1	808.8	954.2
127.5°	279.1	315.2	475.0	757.2	881.9
130°	289.8	324.7	472.6	724.8	836.7
132.5°	300.5	335.4	470.2	697.2	796.3
135°	315.1	350.0	466.7	658.8	743.1
137.5°	330.8	362.5	464.9	624.9	695.9
140°	340.3	370.9	463.7	603.4	667.3
142.5°	349.9	378.0	462.5	586.5	640.0
145°	364.1	390.3	460.7	559.8	601.9
147.5°	380.2	402.6	459.2	538.8	571.9
150°	390.9	409.8	459.2	526.7	552.9
152.5°	399.2	415.8	458.1	515.9	537.4
155°	411.7	426.2	457.8	502.7	517.2
157.5°	423.9	435.2	457.8	493.7	504.7
160°	431.0	441.2	457.8	487.7	496.4
162.5°	438.1	446.0	458.9	482.9	489.3
165°	445.9	451.7	459.2	478.6	480.1
167.5°	453.9	456.8	460.7	473.5	474.7
170°	456.3	459.2	460.7	471.1	471.1
172.5°	458.6	460.4	460.7	468.8	468.8
175°	462.2	463.7	460.7	466.6	465.2
177.5°	463.4	463.4	459.8	464.5	462.2
180°	462.2	462.2	462.2	462.2	462.2

(END OF REPORT)