

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: P563054

Luminaire Tested: **SQ4-PC3-125U-100D-940-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563054  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-PC3-125U-100D-940-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

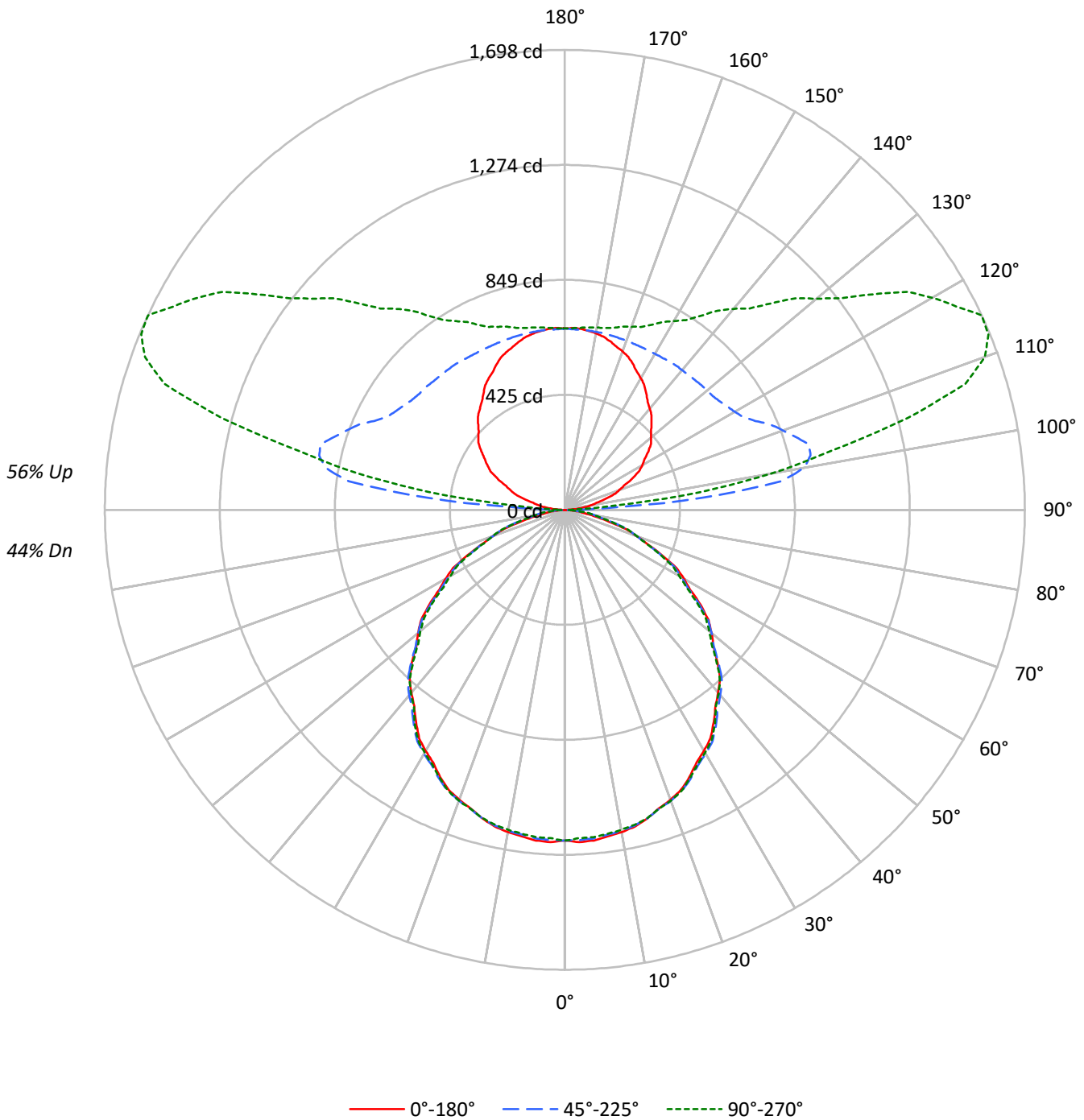
Lumens per Lamp: N/A  
Luminaire Lumens: 7655.1 lumens  
Efficiency: N/A  
Efficacy: 118.7 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 64.5  
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			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	106	106	106	106	97	97	97	97	80	80	80	64	64	64	50	50	50	44		
1	96	92	88	85	88	84	81	78	70	68	66	57	55	54	44	43	42	37		
2	88	80	74	69	80	74	69	64	61	58	54	50	47	45	39	37	36	31		
3	80	71	63	58	73	65	59	54	54	49	46	44	41	38	35	32	30	26		
4	73	62	55	49	67	57	51	45	48	43	39	39	35	32	31	28	26	22		
5	67	56	48	42	61	51	44	39	43	37	33	35	31	28	28	25	23	19		
6	62	50	42	36	56	46	39	34	39	33	29	32	28	24	25	22	20	17		
7	57	45	37	31	52	41	34	29	35	29	25	29	25	22	23	20	18	15		
8	53	41	33	28	48	38	31	26	32	26	23	26	22	19	21	18	16	13		
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14	12		
10	46	34	27	22	42	31	25	21	27	22	18	22	18	15	18	15	13	11		

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

	0°	45°	90°
0°	11263	11263	11263
5°	11348	11275	11232
10°	11320	11268	11236
15°	11260	11260	11250
20°	11187	11220	11220
25°	11081	11161	11127
30°	10946	11079	11031
35°	10783	10949	10872
40°	10605	10755	10646
45°	10412	10487	10323
50°	10141	10141	9978
55°	9819	9691	9545
60°	9344	9156	9010
65°	8636	8464	8390
70°	7561	7623	7594
75°	6085	6730	6769
80°	4325	5706	5765
85°	2636	4785	4785



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	115.5	1.5
10°-20°	331.5	4.3
20°-30°	502.1	6.6
30°-40°	601.9	7.9
40°-50°	613.7	8.0
50°-60°	535.8	7.0
60°-70°	383.6	5.0
70°-80°	197.6	2.6
80°-90°	51.5	0.7
90°-100°	313.2	4.1
100°-110°	843.6	11.0
110°-120°	885.4	11.6
120°-130°	718.5	9.4
130°-140°	563.5	7.4
140°-150°	432.6	5.7
150°-160°	311.0	4.1
160°-170°	190.0	2.5
170°-180°	64.1	0.8
0°-30°	949.2	12.4
0°-40°	1551.1	20.3
0°-60°	2700.6	35.3
0°-90°	3333.3	43.5
90°-120°	2042.2	26.7
90°-150°	3756.7	49.1
90°-180°	4322.0	56.5
0°-180°	7655.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1221	1221	1221	1221	1221	
5°	1225	1213	1217	1214	1213	116
15°	1179	1169	1179	1179	1178	332
25°	1088	1081	1096	1093	1093	501
35°	957	955	972	965	965	599
45°	798	796	804	793	791	614
55°	610	603	602	593	593	544
65°	396	387	388	384	384	391
75°	171	178	189	190	190	184
85°	25	38	45	46	45	34
90°	2	5	10	11	11	4
95°	48	170	513	262	182	50
105°	156	243	933	1396	1310	164
115°	276	337	777	1501	1698	271
125°	376	432	698	1179	1388	336
135°	453	505	678	951	1077	350
145°	524	564	670	813	873	328
155°	594	616	664	730	753	274
165°	645	652	666	693	696	182
175°	670	670	667	676	675	64
180°	670	670	670	670	670	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1220.8	1220.8	1220.8	1220.8	1220.8
2.5°	1228.0	1217.4	1220.8	1217.9	1213.5
5°	1225.3	1213.1	1217.4	1214.0	1212.8
7.5°	1216.5	1204.3	1209.9	1207.6	1206.5
10°	1208.3	1196.2	1202.7	1200.4	1199.3
12.5°	1197.5	1186.2	1193.6	1191.4	1191.1
15°	1178.9	1169.0	1178.9	1178.9	1177.8
17.5°	1155.7	1146.6	1157.2	1157.9	1157.2
20°	1139.4	1129.4	1142.8	1141.7	1142.8
22.5°	1119.5	1111.3	1125.6	1122.7	1123.8
25°	1088.5	1080.8	1096.4	1093.0	1093.0
27.5°	1051.9	1046.4	1063.4	1059.8	1059.8
30°	1027.5	1021.9	1039.9	1035.4	1035.4
32.5°	1000.3	996.6	1013.7	1008.3	1008.3
35°	957.4	955.2	972.1	965.3	965.3
37.5°	913.1	911.1	926.4	918.2	915.6
40°	880.5	879.4	893.0	883.9	883.9
42.5°	848.0	846.9	858.6	847.7	847.7
45°	798.0	795.8	803.7	793.4	791.2
47.5°	743.5	741.3	746.2	735.1	734.0
50°	706.5	704.2	706.5	696.3	695.2
52.5°	668.5	664.5	664.9	654.7	654.5
55°	610.4	602.6	602.5	593.4	593.4
57.5°	548.9	538.7	539.6	531.9	530.8
60°	506.4	495.3	496.2	489.4	488.3
62.5°	464.8	452.0	454.6	446.9	446.7
65°	395.6	386.8	387.7	384.3	384.3
67.5°	329.2	321.0	326.9	324.2	324.0
70°	280.3	274.8	282.6	282.6	281.5
72.5°	235.1	234.9	244.6	244.6	245.3
75°	170.7	178.4	188.8	189.9	189.9
77.5°	113.9	127.6	139.0	139.5	139.3
80°	81.4	96.9	107.4	109.6	108.5
82.5°	55.2	71.5	80.3	82.5	81.4
85°	24.9	38.1	45.2	46.3	45.2
87.5°	7.6	16.2	20.1	20.3	18.5
90°	1.7	5.0	10.2	11.1	11.1
92.5°	20.8	73.5	145.3	70.0	48.6
95°	47.8	170.3	513.4	262.5	181.7
97.5°	76.2	195.0	805.2	672.7	507.3
100°	98.1	204.8	898.0	939.6	779.5
102.5°	119.2	218.6	928.7	1139.5	1008.0
105°	156.1	242.8	933.0	1395.8	1309.9
107.5°	190.9	268.2	893.3	1527.6	1549.8
110°	214.1	287.4	857.1	1568.5	1649.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	238.6	306.7	822.3	1559.4	1692.4
115°	275.5	337.2	776.9	1501.2	1698.0
117.5°	309.1	366.9	741.8	1408.2	1627.4
120°	330.9	386.8	724.1	1341.5	1566.6
122.5°	350.0	405.2	711.1	1273.3	1497.7
125°	376.1	432.0	697.6	1179.1	1387.6
127.5°	401.2	456.2	689.1	1096.0	1282.1
130°	416.2	471.2	685.7	1048.4	1211.9
132.5°	431.2	485.6	682.3	1006.5	1156.6
135°	452.9	505.4	678.0	951.2	1077.1
137.5°	473.5	523.9	675.8	904.3	1007.7
140°	487.8	536.2	673.7	875.4	968.8
142.5°	502.8	547.9	672.4	848.5	927.2
145°	523.6	564.5	669.5	813.3	873.3
147.5°	546.2	581.7	666.6	783.6	830.8
150°	561.2	592.0	665.2	765.0	804.2
152.5°	574.8	601.7	664.5	749.8	781.7
155°	594.4	616.1	663.5	729.7	753.0
157.5°	611.6	628.5	663.7	715.5	731.2
160°	622.6	636.7	664.4	707.3	718.9
162.5°	632.1	643.6	665.0	700.4	708.7
165°	644.7	652.2	666.1	692.6	695.9
167.5°	655.0	659.3	666.9	686.6	687.9
170°	661.8	663.5	666.9	683.1	683.1
172.5°	665.9	666.2	667.6	679.7	679.7
175°	670.3	669.5	666.9	676.3	674.6
177.5°	672.2	670.9	667.4	672.9	671.5
180°	669.5	669.5	669.5	669.5	669.5

(END OF REPORT)