

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: P562594

Luminaire Tested: **SQ4-PC3-025U-125D-935-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562594  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PC3-025U-125D-935-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

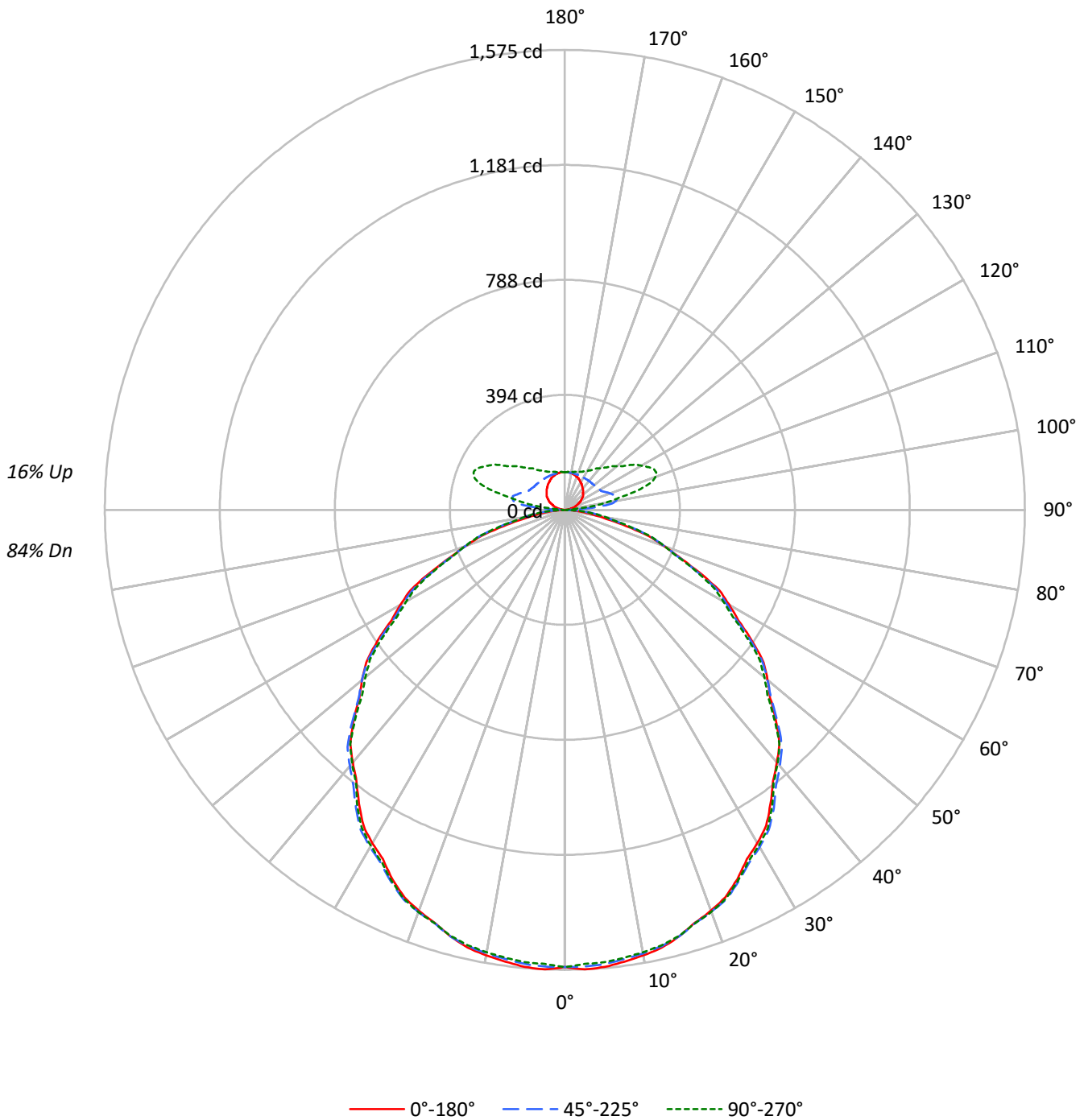
Lumens per Lamp: N/A  
Luminaire Lumens: 5113.3 lumens  
Efficiency: N/A  
Efficacy: 103.3 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 49.5  
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																		
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	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																														
0	115	115	115	115	111	111	111	111	102	102	102	94	94	94	87	87	87	84																												
1	105	101	97	93	101	97	93	90	90	87	84	83	81	79	77	75	74	71																												
2	96	88	82	76	92	85	79	74	79	74	70	73	69	66	68	65	62	59																												
3	88	78	70	64	84	75	68	62	70	64	59	65	60	56	60	56	53	50																												
4	80	69	60	54	77	66	59	53	62	55	50	58	52	48	54	49	46	43																												
5	74	61	53	46	71	59	51	45	55	49	43	52	46	42	48	44	40	37																												
6	68	55	47	40	65	53	45	40	50	43	38	47	41	36	44	39	35	33																												
7	63	50	42	36	60	48	41	35	45	39	34	43	37	32	40	35	31	29																												
8	59	46	37	32	56	44	37	31	42	35	30	39	33	29	37	32	28	26																												
9	55	42	34	28	53	41	33	28	38	32	27	36	30	26	34	29	25	23																												
10	51	38	31	26	49	37	30	25	35	29	24	33	28	24	31	26	23	21																												

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

	0°	45°	90°
0°	14446	14446	14446
5°	14555	14462	14408
10°	14520	14452	14412
15°	14444	14444	14430
20°	14348	14392	14392
25°	14213	14316	14272
30°	14040	14210	14148
35°	13831	14043	13945
40°	13602	13795	13655
45°	13356	13450	13242
50°	13006	13006	12798
55°	12593	12431	12244
60°	11985	11745	11557
65°	11077	10857	10761
70°	9700	9779	9738
75°	7803	8630	8684
80°	5547	7316	7396
85°	3377	6140	6140



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	148.2	2.9
10°-20°	425.3	8.3
20°-30°	644.0	12.6
30°-40°	772.1	15.1
40°-50°	787.2	15.4
50°-60°	687.2	13.4
60°-70°	492.0	9.6
70°-80°	253.4	5.0
80°-90°	64.8	1.3
90°-100°	63.1	1.2
100°-110°	165.9	3.2
110°-120°	172.0	3.4
120°-130°	138.0	2.7
130°-140°	108.3	2.1
140°-150°	83.1	1.6
150°-160°	59.9	1.2
160°-170°	36.6	0.7
170°-180°	12.4	0.2
0°-30°	1217.4	23.8
0°-40°	1989.5	38.9
0°-60°	3463.9	67.7
0°-90°	4274.1	83.6
90°-120°	401.1	7.8
90°-150°	730.4	14.3
90°-180°	839.0	16.4
0°-180°	5113.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1566	1566	1566	1566	1566	
5°	1572	1556	1562	1557	1556	149
15°	1512	1499	1512	1512	1511	426
25°	1396	1386	1406	1402	1402	643
35°	1228	1225	1247	1238	1238	768
45°	1024	1021	1031	1018	1015	788
55°	783	773	773	761	761	698
65°	507	496	497	493	493	502
75°	219	229	242	244	244	237
85°	32	49	58	59	58	43
90°	1	2	7	3	3	2
95°	8	33	109	56	38	9
105°	30	45	183	278	260	32
115°	53	64	147	293	334	52
125°	74	83	134	226	266	66
135°	88	97	130	182	207	68
145°	102	109	128	156	168	64
155°	115	119	128	140	144	53
165°	124	126	128	133	134	35
175°	130	130	129	130	130	12
180°	130	130	130	130	130	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1565.8	1565.8	1565.8	1565.8	1565.8
2.5°	1575.1	1561.5	1565.8	1562.2	1556.5
5°	1571.6	1556.0	1561.5	1557.1	1555.7
7.5°	1560.3	1544.7	1551.9	1549.0	1547.5
10°	1549.9	1534.3	1542.6	1539.7	1538.3
12.5°	1535.9	1521.5	1531.0	1528.1	1527.8
15°	1512.2	1499.4	1512.2	1512.1	1510.7
17.5°	1482.3	1470.7	1484.3	1485.2	1484.3
20°	1461.4	1448.7	1465.8	1464.3	1465.8
22.5°	1435.9	1425.4	1443.7	1440.0	1441.4
25°	1396.2	1386.2	1406.3	1402.0	1402.0
27.5°	1349.2	1342.1	1364.0	1359.3	1359.3
30°	1317.9	1310.8	1333.8	1328.0	1328.0
32.5°	1283.1	1278.3	1300.2	1293.2	1293.2
35°	1228.0	1225.2	1246.8	1238.1	1238.1
37.5°	1171.2	1168.6	1188.3	1177.8	1174.4
40°	1129.4	1128.0	1145.4	1133.8	1133.8
42.5°	1087.7	1086.2	1101.3	1087.4	1087.4
45°	1023.6	1020.7	1030.8	1017.7	1014.9
47.5°	953.7	950.9	957.2	942.9	941.5
50°	906.1	903.3	906.1	893.1	891.6
52.5°	857.4	852.3	852.8	839.7	839.4
55°	782.9	773.0	772.8	761.2	761.2
57.5°	704.0	691.0	692.1	682.3	680.8
60°	649.5	635.3	636.5	627.7	626.3
62.5°	596.2	579.7	583.1	573.3	573.0
65°	507.4	496.1	497.3	492.9	492.9
67.5°	422.2	411.7	419.3	415.8	415.5
70°	359.6	352.5	362.5	362.4	361.0
72.5°	301.6	301.3	313.7	313.8	314.6
75°	218.9	228.8	242.1	243.6	243.6
77.5°	146.1	163.7	178.3	178.9	178.6
80°	104.4	124.2	137.7	140.6	139.2
82.5°	70.8	91.7	102.9	105.8	104.4
85°	31.9	48.9	58.0	59.4	58.0
87.5°	9.4	20.0	24.5	23.8	21.5
90°	0.8	2.5	6.6	3.3	3.3
92.5°	3.5	16.8	37.2	16.5	10.6
95°	8.3	32.6	108.7	56.0	38.2
97.5°	14.4	35.9	162.7	129.4	95.3
100°	19.1	38.6	179.3	181.7	141.1
102.5°	23.1	41.3	183.9	226.3	191.6
105°	29.9	45.3	183.4	278.5	259.8
107.5°	36.9	51.1	173.0	305.6	310.1
110°	41.5	54.5	164.3	312.5	332.0

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	46.2	58.5	156.4	308.1	338.0
115°	53.1	64.5	146.9	293.1	334.5
117.5°	59.9	70.3	140.4	272.3	318.2
120°	63.9	73.7	137.8	258.3	303.0
122.5°	67.9	77.6	135.8	244.4	288.4
125°	73.9	82.8	133.6	225.9	266.4
127.5°	78.7	87.8	131.8	210.9	245.2
130°	81.3	91.1	131.1	201.6	233.2
132.5°	84.0	93.7	130.5	193.5	222.0
135°	88.0	96.9	129.5	182.3	206.7
137.5°	92.1	100.9	129.3	173.9	193.9
140°	95.5	103.6	128.7	167.3	185.9
142.5°	98.1	105.6	128.7	162.6	178.6
145°	102.1	108.6	127.8	155.5	167.7
147.5°	106.1	112.4	127.8	149.6	159.7
150°	108.7	114.4	127.8	146.3	154.4
152.5°	111.4	115.8	127.8	143.6	149.7
155°	115.4	118.6	127.8	140.4	144.4
157.5°	118.4	121.4	127.8	137.5	140.4
160°	120.4	122.8	127.8	136.2	137.8
162.5°	122.3	124.1	127.8	134.8	136.5
165°	124.5	126.1	127.8	132.8	134.5
167.5°	126.5	127.3	128.7	132.0	132.6
170°	127.8	128.6	128.7	132.0	132.0
172.5°	128.5	128.7	128.7	131.3	130.6
175°	129.5	129.5	128.7	130.3	130.3
177.5°	129.5	129.5	128.8	130.1	129.5
180°	129.5	129.5	129.5	129.5	129.5

(END OF REPORT)