

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: P562582

Luminaire Tested: **SQ4-PC3-025U-125D-835-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562582  
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-835-1D-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, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

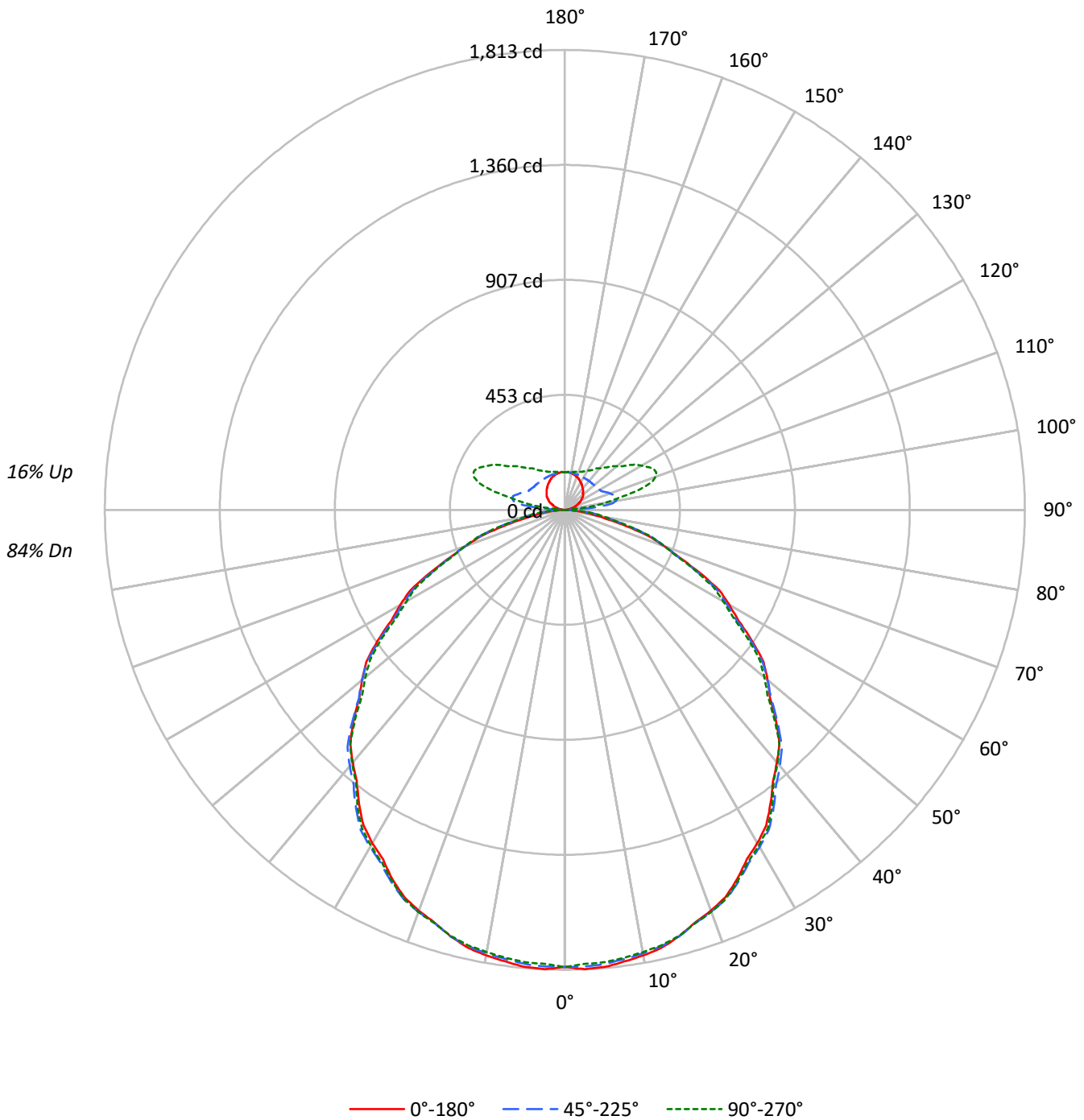
Lumens per Lamp: N/A  
Luminaire Lumens: 5884.9 lumens  
Efficiency: N/A  
Efficacy: 118.9 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

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					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	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°	16627	16627	16627
5°	16751	16644	16582
10°	16711	16633	16586
15°	16623	16623	16607
20°	16513	16563	16563
25°	16357	16476	16425
30°	16158	16354	16283
35°	15918	16163	16050
40°	15655	15876	15715
45°	15370	15480	15240
50°	14969	14969	14729
55°	14493	14306	14091
60°	13793	13516	13300
65°	12749	12494	12385
70°	11163	11252	11208
75°	8983	9935	9992
80°	6381	8421	8512
85°	3885	7061	7061



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	170.5	2.9
10°-20°	489.4	8.3
20°-30°	741.2	12.6
30°-40°	888.6	15.1
40°-50°	906.0	15.4
50°-60°	790.9	13.4
60°-70°	566.2	9.6
70°-80°	291.6	5.0
80°-90°	74.5	1.3
90°-100°	72.6	1.2
100°-110°	190.9	3.2
110°-120°	198.0	3.4
120°-130°	158.8	2.7
130°-140°	124.6	2.1
140°-150°	95.6	1.6
150°-160°	68.9	1.2
160°-170°	42.1	0.7
170°-180°	14.2	0.2
0°-30°	1401.1	23.8
0°-40°	2289.7	38.9
0°-60°	3986.6	67.7
0°-90°	4919.0	83.6
90°-120°	461.6	7.8
90°-150°	840.6	14.3
90°-180°	966.0	16.4
0°-180°	5884.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1802	1802	1802	1802	1802	
5°	1809	1791	1797	1792	1790	172
15°	1740	1726	1740	1740	1739	491
25°	1607	1595	1618	1614	1614	739
35°	1413	1410	1435	1425	1425	884
45°	1178	1175	1186	1171	1168	907
55°	901	890	889	876	876	803
65°	584	571	572	567	567	578
75°	252	263	279	280	280	272
85°	37	56	67	68	67	50
90°	1	3	8	4	4	2
95°	10	38	125	64	44	11
105°	34	52	211	320	299	36
115°	61	74	169	337	385	60
125°	85	95	154	260	307	75
135°	101	112	149	210	238	78
145°	118	125	147	179	193	74
155°	133	136	147	162	166	61
165°	143	145	147	153	155	40
175°	149	149	148	150	150	14
180°	149	149	149	149	149	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1802.1	1802.1	1802.1	1802.1	1802.1
2.5°	1812.7	1797.1	1802.1	1797.9	1791.4
5°	1808.7	1790.8	1797.1	1792.0	1790.4
7.5°	1795.7	1777.8	1786.0	1782.7	1781.0
10°	1783.7	1765.8	1775.4	1772.0	1770.4
12.5°	1767.7	1751.1	1762.0	1758.7	1758.3
15°	1740.3	1725.6	1740.3	1740.3	1738.7
17.5°	1706.0	1692.6	1708.3	1709.3	1708.3
20°	1681.9	1667.2	1686.9	1685.3	1686.9
22.5°	1652.6	1640.5	1661.6	1657.3	1658.9
25°	1606.8	1595.4	1618.5	1613.5	1613.5
27.5°	1552.8	1544.6	1569.8	1564.5	1564.5
30°	1516.7	1508.6	1535.1	1528.4	1528.4
32.5°	1476.7	1471.1	1496.4	1488.4	1488.4
35°	1413.3	1410.0	1435.0	1425.0	1425.0
37.5°	1347.9	1344.9	1367.6	1355.5	1351.5
40°	1299.8	1298.2	1318.2	1304.8	1304.8
42.5°	1251.8	1250.1	1267.5	1251.4	1251.4
45°	1178.0	1174.8	1186.4	1171.3	1168.0
47.5°	1097.6	1094.3	1101.6	1085.2	1083.6
50°	1042.9	1039.6	1042.9	1027.8	1026.2
52.5°	986.8	980.9	981.5	966.4	966.1
55°	901.0	889.6	889.4	876.0	876.0
57.5°	810.3	795.3	796.6	785.2	783.6
60°	747.5	731.2	732.5	722.5	720.8
62.5°	686.1	667.2	671.1	659.7	659.4
65°	584.0	571.0	572.3	567.3	567.3
67.5°	485.9	473.8	482.6	478.5	478.2
70°	413.8	405.6	417.1	417.1	415.5
72.5°	347.1	346.7	361.1	361.1	362.1
75°	252.0	263.4	278.7	280.3	280.3
77.5°	168.2	188.4	205.2	205.9	205.6
80°	120.1	143.0	158.5	161.8	160.2
82.5°	81.4	105.6	118.5	121.8	120.1
85°	36.7	56.3	66.7	68.4	66.7
87.5°	10.9	23.0	28.2	27.4	24.8
90°	1.0	2.8	7.6	3.8	3.8
92.5°	4.0	19.3	42.8	19.0	12.2
95°	9.6	37.6	125.1	64.5	43.9
97.5°	16.6	41.3	187.2	148.9	109.7
100°	22.0	44.4	206.3	209.1	162.4
102.5°	26.6	47.5	211.7	260.5	220.5
105°	34.4	52.1	211.1	320.5	299.0
107.5°	42.4	58.9	199.1	351.7	356.9
110°	47.8	62.7	189.1	359.7	382.1

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	53.1	67.3	180.0	354.6	389.0
115°	61.1	74.2	169.1	337.3	385.0
117.5°	69.0	80.9	161.6	313.4	366.3
120°	73.6	84.8	158.6	297.3	348.7
122.5°	78.1	89.4	156.3	281.2	331.9
125°	85.0	95.3	153.8	259.9	306.6
127.5°	90.6	101.0	151.7	242.8	282.2
130°	93.6	104.8	150.9	232.0	268.4
132.5°	96.7	107.9	150.2	222.8	255.4
135°	101.3	111.5	149.0	209.8	237.9
137.5°	106.0	116.1	148.8	200.2	223.2
140°	109.9	119.2	148.1	192.5	214.0
142.5°	112.9	121.5	148.1	187.1	205.6
145°	117.5	125.0	147.1	179.0	193.0
147.5°	122.1	129.4	147.1	172.2	183.8
150°	125.1	131.7	147.1	168.3	177.7
152.5°	128.2	133.2	147.1	165.2	172.3
155°	132.8	136.5	147.1	161.5	166.2
157.5°	136.2	139.8	147.1	158.3	161.6
160°	138.5	141.3	147.1	156.7	158.6
162.5°	140.8	142.9	147.1	155.2	157.0
165°	143.3	145.2	147.1	152.9	154.8
167.5°	145.6	146.5	148.1	151.9	152.7
170°	147.1	148.0	148.1	151.9	151.9
172.5°	147.9	148.1	148.1	151.1	150.4
175°	149.0	149.0	148.1	150.0	150.0
177.5°	149.0	149.0	148.3	149.8	149.0
180°	149.0	149.0	149.0	149.0	149.0

(END OF REPORT)