

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: P562595

Luminaire Tested: **SQ4-PC3-025U-125D-935-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562595  
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-6  
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**

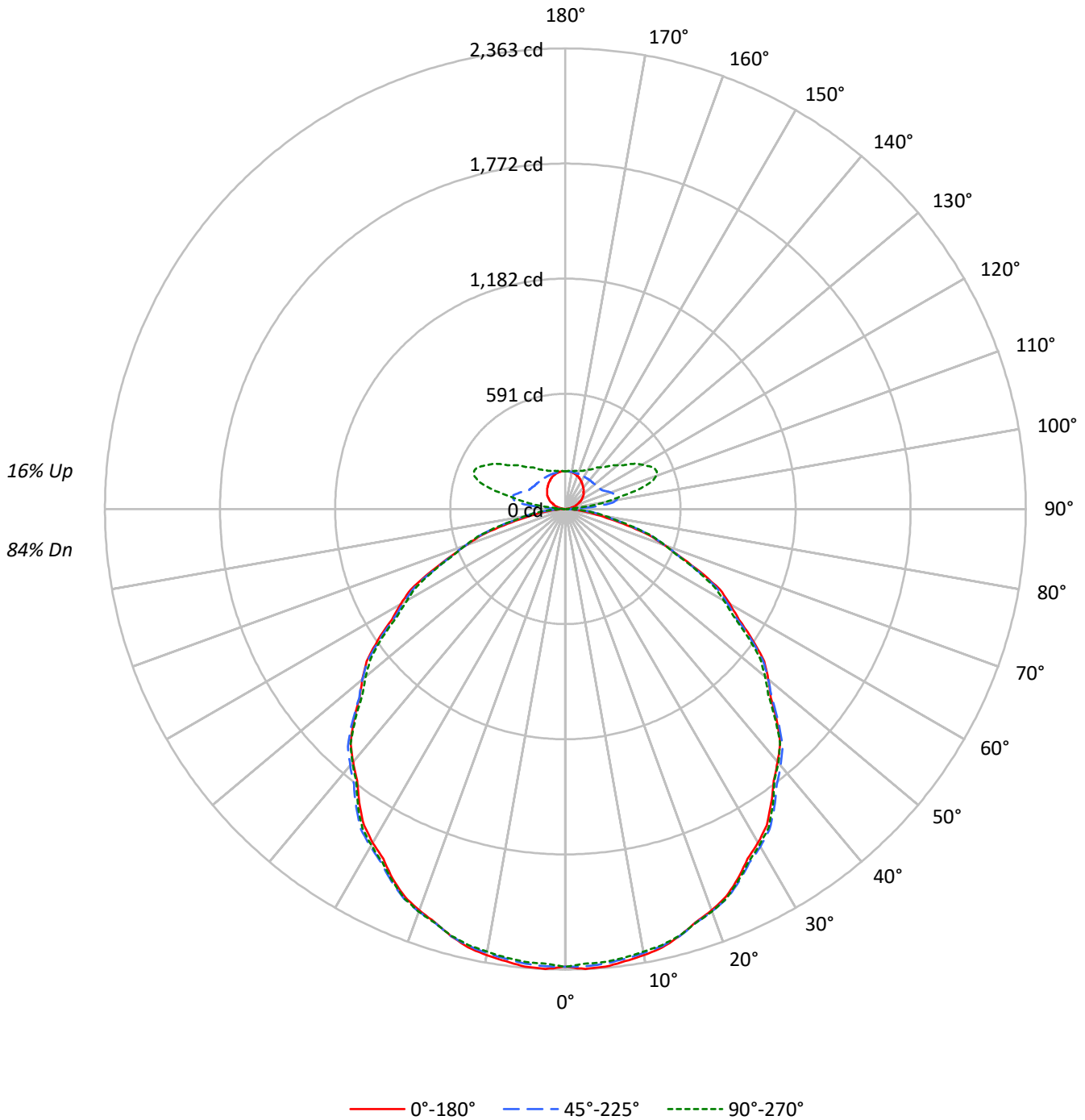
Lumens per Lamp: N/A  
Luminaire Lumens: 7670.0 lumens  
Efficiency: N/A  
Efficacy: 98.5 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 77.9  
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°	14446	14446	14446
5°	14555	14461	14408
10°	14520	14452	14411
15°	14443	14443	14430
20°	14348	14391	14391
25°	14213	14316	14272
30°	14040	14210	14148
35°	13831	14044	13945
40°	13602	13794	13655
45°	13356	13450	13242
50°	13006	13006	12798
55°	12594	12430	12243
60°	11985	11744	11557
65°	11079	10856	10761
70°	9699	9778	9738
75°	7804	8631	8684
80°	5547	7318	7396
85°	3373	6140	6140



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	222.3	2.9
10°-20°	637.9	8.3
20°-30°	966.0	12.6
30°-40°	1158.1	15.1
40°-50°	1180.8	15.4
50°-60°	1030.8	13.4
60°-70°	738.0	9.6
70°-80°	380.1	5.0
80°-90°	97.2	1.3
90°-100°	94.7	1.2
100°-110°	248.9	3.2
110°-120°	258.1	3.4
120°-130°	207.0	2.7
130°-140°	162.4	2.1
140°-150°	124.6	1.6
150°-160°	89.8	1.2
160°-170°	54.9	0.7
170°-180°	18.6	0.2
0°-30°	1826.1	23.8
0°-40°	2984.2	38.9
0°-60°	5195.9	67.7
0°-90°	6411.1	83.6
90°-120°	601.6	7.8
90°-150°	1095.7	14.3
90°-180°	1259.0	16.4
0°-180°	7670.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2349	2349	2349	2349	2349	
5°	2357	2334	2342	2336	2334	224
15°	2268	2249	2268	2268	2266	640
25°	2094	2079	2110	2103	2103	964
35°	1842	1838	1870	1857	1857	1152
45°	1535	1531	1546	1527	1522	1182
55°	1174	1160	1159	1142	1142	1047
65°	761	744	746	739	739	753
75°	328	343	363	365	365	355
85°	48	73	87	89	87	65
90°	1	4	10	5	5	3
95°	12	49	163	84	57	14
105°	45	68	275	418	390	48
115°	80	97	220	440	502	79
125°	111	124	200	339	400	98
135°	132	145	194	274	310	102
145°	153	163	192	233	252	96
155°	173	178	192	211	217	80
165°	187	189	192	199	202	53
175°	194	194	193	196	196	18
180°	194	194	194	194	194	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2348.7	2348.7	2348.7	2348.7	2348.7
2.5°	2362.6	2342.2	2348.7	2343.3	2334.8
5°	2357.4	2334.0	2342.2	2335.6	2333.5
7.5°	2340.4	2317.0	2327.8	2323.4	2321.3
10°	2324.8	2301.4	2313.9	2309.5	2307.4
12.5°	2303.9	2282.2	2296.5	2292.1	2291.7
15°	2268.2	2249.1	2268.2	2268.2	2266.1
17.5°	2223.4	2206.0	2226.5	2227.8	2226.5
20°	2192.1	2173.0	2198.6	2196.5	2198.6
22.5°	2153.8	2138.1	2165.6	2160.0	2162.1
25°	2094.3	2079.4	2109.5	2103.0	2103.0
27.5°	2023.8	2013.2	2046.0	2039.0	2039.0
30°	1976.8	1966.2	2000.7	1992.0	1992.0
32.5°	1924.6	1917.4	1950.3	1939.9	1939.9
35°	1842.0	1837.7	1870.3	1857.2	1857.2
37.5°	1756.7	1752.9	1782.4	1766.6	1761.5
40°	1694.1	1692.0	1718.0	1700.6	1700.6
42.5°	1631.5	1629.4	1651.9	1631.0	1631.0
45°	1535.4	1531.1	1546.2	1526.6	1522.3
47.5°	1430.5	1426.3	1435.8	1414.4	1412.3
50°	1359.2	1354.9	1359.2	1339.6	1337.5
52.5°	1286.1	1278.5	1279.2	1259.6	1259.2
55°	1174.4	1159.5	1159.1	1141.7	1141.7
57.5°	1056.0	1036.5	1038.2	1023.4	1021.3
60°	974.3	953.0	954.7	941.6	939.5
62.5°	894.2	869.6	874.7	859.9	859.5
65°	761.2	744.1	745.9	739.4	739.4
67.5°	633.3	617.5	628.9	623.7	623.3
70°	539.3	528.7	543.7	543.6	541.5
72.5°	452.3	451.9	470.6	470.6	471.9
75°	328.4	343.3	363.2	365.4	365.4
77.5°	219.2	245.6	267.5	268.4	267.9
80°	156.6	186.3	206.6	210.9	208.8
82.5°	106.1	137.6	154.4	158.7	156.6
85°	47.8	73.4	87.0	89.1	87.0
87.5°	14.2	30.0	36.8	35.7	32.3
90°	1.2	3.7	10.0	5.0	5.0
92.5°	5.2	25.2	55.8	24.7	15.9
95°	12.5	49.0	163.1	84.1	57.3
97.5°	21.7	53.8	244.0	194.1	142.9
100°	28.6	57.9	268.9	272.5	211.7
102.5°	34.6	61.9	275.9	339.5	287.4
105°	44.8	68.0	275.2	417.7	389.7
107.5°	55.3	76.7	259.5	458.3	465.2
110°	62.3	81.7	246.5	468.8	498.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	69.2	87.7	234.6	462.2	507.0
115°	79.7	96.7	220.4	439.7	501.8
117.5°	89.9	105.5	210.7	408.5	477.4
120°	95.9	110.5	206.7	387.5	454.4
122.5°	101.8	116.5	203.7	366.6	432.5
125°	110.8	124.2	200.5	338.8	399.7
127.5°	118.0	131.7	197.7	316.4	367.8
130°	122.0	136.6	196.7	302.4	349.9
132.5°	126.0	140.6	195.7	290.3	332.9
135°	132.0	145.4	194.2	273.5	310.0
137.5°	138.2	151.3	194.0	260.9	290.8
140°	143.2	155.4	193.0	250.9	278.9
142.5°	147.2	158.4	193.0	243.8	267.9
145°	153.1	162.9	191.7	233.2	251.5
147.5°	159.1	168.6	191.7	224.5	239.6
150°	163.1	171.6	191.7	219.4	231.6
152.5°	167.1	173.7	191.7	215.4	224.6
155°	173.1	177.9	191.7	210.6	216.6
157.5°	177.5	182.2	191.7	206.3	210.7
160°	180.5	184.2	191.7	204.2	206.7
162.5°	183.5	186.2	191.7	202.3	204.7
165°	186.8	189.2	191.7	199.3	201.7
167.5°	189.7	191.0	193.0	198.0	199.0
170°	191.7	193.0	193.0	198.0	198.0
172.5°	192.7	193.0	193.0	196.9	196.0
175°	194.2	194.2	193.0	195.5	195.5
177.5°	194.2	194.2	193.2	195.2	194.2
180°	194.2	194.2	194.2	194.2	194.2

(END OF REPORT)