

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: P561455

Luminaire Tested: **SQ4-PC3-025U-125D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P561455  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-92765-1D-UNV-STD-W-4 (4000K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

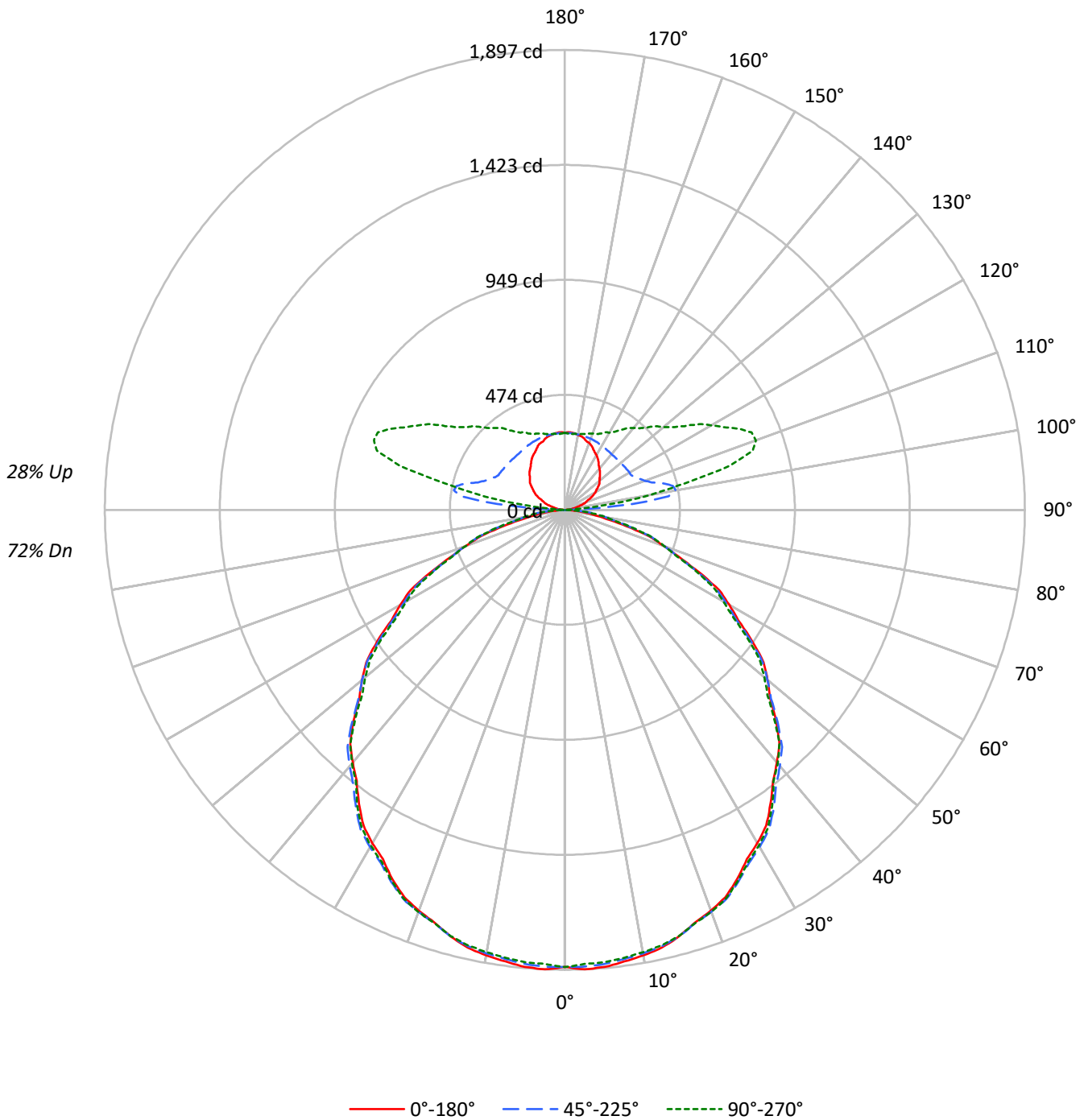
Lumens per Lamp: N/A  
Luminaire Lumens: 7118.8 lumens  
Efficiency: N/A  
Efficacy: 102.0 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 69.8  
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	112	112	112	112	107	107	107	107	96	96	96	86	86	86	77	77	77	72
1	103	98	94	91	97	93	90	87	84	82	79	76	74	72	68	66	65	61
2	94	86	80	74	89	82	76	71	74	69	66	67	63	60	60	57	55	51
3	86	76	68	62	81	72	65	60	65	60	55	59	54	51	53	49	47	43
4	78	67	59	52	74	64	56	51	58	52	47	52	47	43	47	43	40	37
5	72	60	51	45	68	57	49	44	52	45	41	47	42	38	43	38	35	32
6	66	54	45	39	63	51	44	38	47	40	35	43	37	33	39	34	31	28
7	61	49	40	34	58	46	39	33	42	36	31	39	33	29	35	31	27	25
8	57	44	36	31	54	42	35	30	39	32	28	35	30	26	32	28	24	22
9	53	40	33	27	50	39	32	27	36	29	25	33	27	24	30	25	22	20
10	50	37	30	25	47	36	29	24	33	27	23	30	25	21	28	23	20	18

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

	0°	45°	90°
0°	17399	17399	17399
5°	17529	17416	17351
10°	17487	17405	17356
15°	17395	17395	17378
20°	17280	17332	17332
25°	17118	17242	17189
30°	16909	17114	17039
35°	16657	16913	16796
40°	16382	16613	16445
45°	16084	16199	15948
50°	15664	15664	15413
55°	15167	14971	14745
60°	14433	14144	13919
65°	13341	13075	12961
70°	11680	11775	11729
75°	9400	10395	10455
80°	6679	8815	8905
85°	4065	7389	7389



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	178.5	2.5
10°-20°	512.2	7.2
20°-30°	775.6	10.9
30°-40°	929.8	13.1
40°-50°	948.1	13.3
50°-60°	827.6	11.6
60°-70°	592.5	8.3
70°-80°	305.2	4.3
80°-90°	77.2	1.1
90°-100°	144.7	2.0
100°-110°	411.6	5.8
110°-120°	394.4	5.5
120°-130°	312.1	4.4
130°-140°	250.5	3.5
140°-150°	196.1	2.8
150°-160°	143.5	2.0
160°-170°	88.9	1.2
170°-180°	30.2	0.4
0°-30°	1466.2	20.6
0°-40°	2396.0	33.7
0°-60°	4171.8	58.6
0°-90°	5146.6	72.3
90°-120°	950.7	13.4
90°-150°	1709.6	24.0
90°-180°	1972.0	27.7
0°-180°	7118.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1886	1886	1886	1886	1886	
5°	1893	1874	1880	1875	1874	180
15°	1821	1806	1821	1821	1819	513
25°	1682	1670	1694	1688	1688	774
35°	1479	1476	1502	1491	1491	925
45°	1233	1229	1242	1226	1222	949
55°	943	931	931	917	917	841
65°	611	598	599	594	594	604
75°	264	276	292	293	293	285
85°	38	59	70	72	70	52
90°	0	0	0	0	0	2
95°	16	62	280	97	60	18
105°	64	97	420	741	704	68
115°	119	144	318	674	791	117
125°	168	186	304	504	602	150
135°	205	222	300	426	481	158
145°	242	254	302	368	401	151
155°	276	283	310	333	346	128
165°	305	307	313	320	325	86
175°	320	318	317	315	313	30
180°	318	318	318	318	318	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1885.8	1885.8	1885.8	1885.8	1885.8
2.5°	1896.9	1880.5	1885.8	1881.4	1874.6
5°	1892.7	1874.0	1880.5	1875.2	1873.5
7.5°	1879.1	1860.3	1869.0	1865.5	1863.8
10°	1866.6	1847.8	1857.8	1854.3	1852.6
12.5°	1849.8	1832.4	1843.9	1840.4	1840.0
15°	1821.2	1805.8	1821.2	1821.1	1819.4
17.5°	1785.2	1771.2	1787.6	1788.7	1787.6
20°	1760.0	1744.7	1765.3	1763.6	1765.3
22.5°	1729.3	1716.7	1738.7	1734.2	1736.0
25°	1681.5	1669.5	1693.7	1688.5	1688.5
27.5°	1624.9	1616.4	1642.7	1637.1	1637.1
30°	1587.2	1578.6	1606.4	1599.4	1599.4
32.5°	1545.3	1539.5	1565.9	1557.5	1557.5
35°	1478.9	1475.5	1501.6	1491.2	1491.2
37.5°	1410.5	1407.4	1431.1	1418.4	1414.3
40°	1360.2	1358.5	1379.4	1365.4	1365.4
42.5°	1309.9	1308.2	1326.3	1309.6	1309.6
45°	1232.7	1229.3	1241.5	1225.7	1222.3
47.5°	1148.6	1145.2	1152.8	1135.6	1133.9
50°	1091.3	1087.9	1091.3	1075.5	1073.8
52.5°	1032.6	1026.5	1027.0	1011.3	1011.0
55°	942.9	930.9	930.7	916.7	916.7
57.5°	847.9	832.2	833.6	821.7	820.0
60°	782.2	765.2	766.5	756.0	754.3
62.5°	718.0	698.2	702.3	690.4	690.0
65°	611.1	597.5	598.9	593.7	593.7
67.5°	508.5	495.8	505.0	500.8	500.4
70°	433.0	424.5	436.5	436.5	434.8
72.5°	363.2	362.8	377.9	377.9	378.9
75°	263.7	275.6	291.6	293.3	293.3
77.5°	176.0	197.2	214.8	215.5	215.1
80°	125.7	149.6	165.9	169.3	167.6
82.5°	85.2	110.5	124.0	127.4	125.7
85°	38.4	58.9	69.8	71.6	69.8
87.5°	11.2	23.5	27.9	27.9	25.1
90°	0.0	0.0	0.0	0.0	0.0
92.5°	4.8	25.6	59.4	17.3	13.0
95°	15.7	62.3	280.1	96.9	59.8
97.5°	28.9	73.0	431.3	308.6	211.5
100°	38.0	79.3	464.2	470.2	362.2
102.5°	48.2	86.2	456.9	601.8	507.5
105°	64.0	97.0	419.5	741.0	704.4
107.5°	80.0	109.7	375.8	780.2	812.8
110°	91.1	118.9	350.7	765.2	838.4

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	101.8	128.1	333.8	729.7	834.1
115°	118.9	143.7	318.1	673.9	791.3
117.5°	134.0	157.3	308.8	612.8	737.2
120°	146.1	165.5	307.8	577.9	697.2
122.5°	155.7	175.2	305.4	547.3	658.0
125°	167.8	186.1	303.6	503.8	602.4
127.5°	181.0	198.1	302.6	477.8	559.1
130°	187.7	204.8	301.2	459.7	530.6
132.5°	195.0	211.6	301.2	445.6	510.8
135°	205.2	222.3	300.0	425.6	481.1
137.5°	214.9	231.5	299.9	408.6	456.6
140°	222.1	239.2	299.4	394.6	440.6
142.5°	230.3	244.6	300.8	383.4	424.7
145°	242.0	254.4	302.4	368.3	401.4
147.5°	252.1	264.1	305.1	353.2	381.7
150°	260.8	269.0	306.0	348.1	368.2
152.5°	267.5	276.2	307.0	341.3	360.0
155°	276.4	282.9	309.6	332.9	346.5
157.5°	287.6	291.4	310.2	329.1	338.7
160°	293.3	296.3	312.7	326.1	334.4
162.5°	296.7	300.2	313.1	323.7	330.0
165°	305.4	306.6	313.3	320.0	324.7
167.5°	311.3	310.3	316.0	319.1	321.0
170°	313.3	312.7	315.1	315.7	318.1
172.5°	317.6	315.6	316.5	314.8	316.6
175°	319.9	318.1	316.9	315.0	312.7
177.5°	320.9	318.0	316.5	314.6	315.1
180°	317.5	317.5	317.5	317.5	317.5

(END OF REPORT)