

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: P561459

Luminaire Tested: **SQ4-PC3-025U-125D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P561459  
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 (6500K)  
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 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

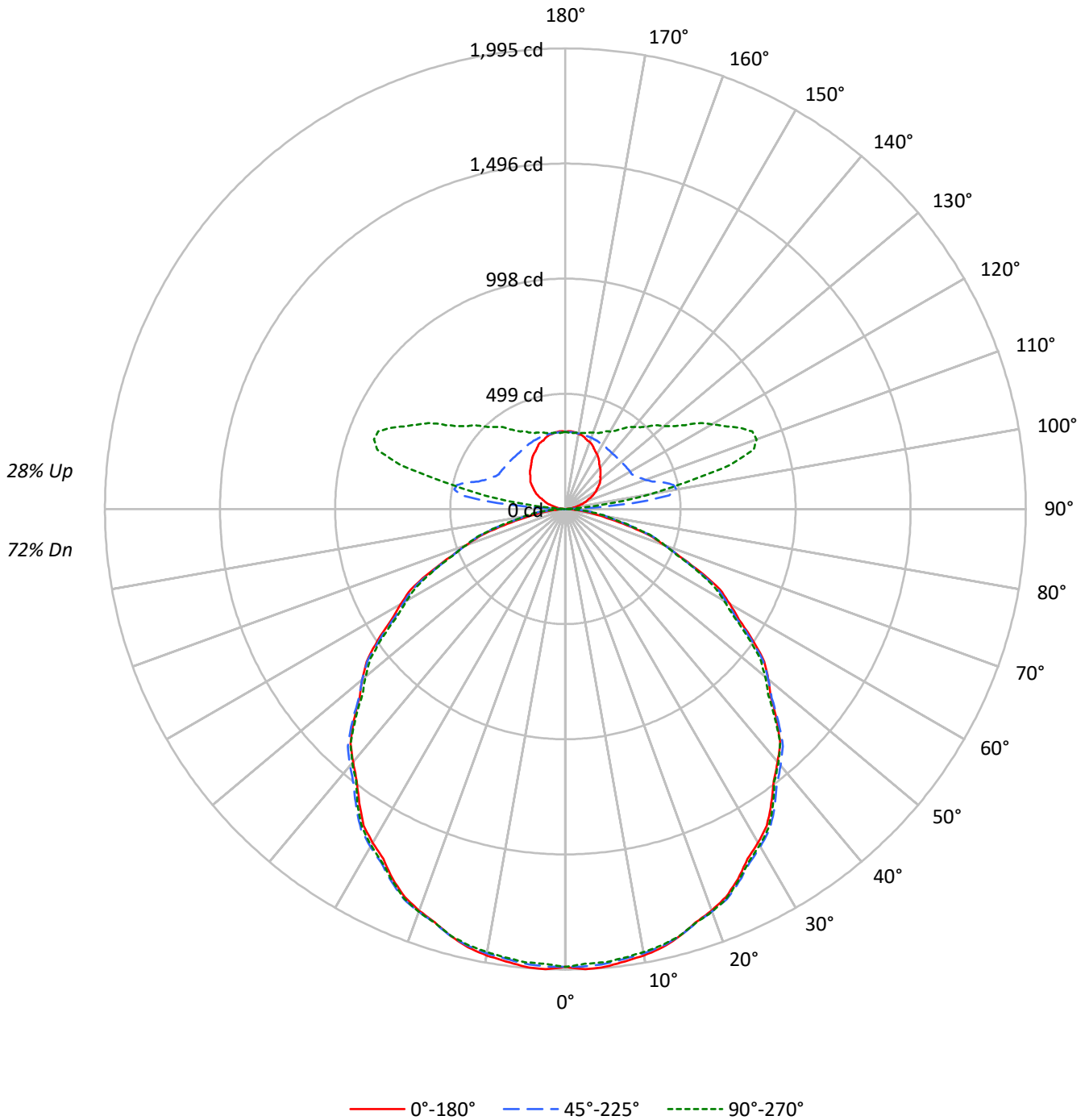
Lumens per Lamp: N/A  
Luminaire Lumens: 7488.2 lumens  
Efficiency: N/A  
Efficacy: 108.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 69.3  
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°	18301	18301	18301
5°	18440	18320	18252
10°	18394	18308	18256
15°	18298	18298	18280
20°	18178	18232	18232
25°	18005	18137	18081
30°	17786	18001	17923
35°	17522	17790	17666
40°	17232	17476	17299
45°	16919	17039	16776
50°	16476	16476	16214
55°	15953	15746	15511
60°	15183	14878	14640
65°	14033	13754	13633
70°	12287	12387	12336
75°	9885	10933	11001
80°	7024	9271	9367
85°	4277	7781	7781



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	187.7	2.5
10°-20°	538.7	7.2
20°-30°	815.8	10.9
30°-40°	978.1	13.1
40°-50°	997.3	13.3
50°-60°	870.6	11.6
60°-70°	623.3	8.3
70°-80°	321.0	4.3
80°-90°	81.2	1.1
90°-100°	152.2	2.0
100°-110°	433.0	5.8
110°-120°	414.9	5.5
120°-130°	328.4	4.4
130°-140°	263.6	3.5
140°-150°	206.3	2.8
150°-160°	151.0	2.0
160°-170°	93.5	1.2
170°-180°	31.7	0.4
0°-30°	1542.3	20.6
0°-40°	2520.4	33.7
0°-60°	4388.2	58.6
0°-90°	5413.7	72.3
90°-120°	1000.1	13.4
90°-150°	1798.3	24.0
90°-180°	2075.0	27.7
0°-180°	7488.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1984	1984	1984	1984	1984	
5°	1991	1971	1978	1973	1971	189
15°	1916	1900	1916	1916	1914	540
25°	1769	1756	1782	1776	1776	814
35°	1556	1552	1580	1568	1568	973
45°	1297	1293	1306	1289	1286	998
55°	992	979	979	964	964	884
65°	643	628	630	624	624	636
75°	277	290	307	309	309	300
85°	40	62	74	75	74	55
90°	0	0	0	0	0	2
95°	16	66	295	102	63	19
105°	67	102	441	779	741	71
115°	125	151	335	709	832	123
125°	176	196	319	530	634	158
135°	216	234	316	448	506	167
145°	255	268	318	388	422	159
155°	291	298	326	350	364	134
165°	321	322	330	337	342	90
175°	336	335	333	331	329	32
180°	334	334	334	334	334	

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CATALOG NUMBER: SQ4-PC3-025U-125D-92765-1D-UNV-STD-W-4 (6500K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1983.6	1983.6	1983.6	1983.6	1983.6
2.5°	1995.4	1978.1	1983.6	1979.0	1971.9
5°	1991.0	1971.2	1978.1	1972.6	1970.8
7.5°	1976.6	1956.9	1966.0	1962.3	1960.5
10°	1963.4	1943.7	1954.2	1950.5	1948.7
12.5°	1945.8	1927.5	1939.5	1935.9	1935.5
15°	1915.7	1899.5	1915.7	1915.6	1913.8
17.5°	1877.8	1863.1	1880.4	1881.5	1880.4
20°	1851.4	1835.2	1856.9	1855.1	1856.9
22.5°	1819.0	1805.8	1829.0	1824.2	1826.0
25°	1768.7	1756.2	1781.6	1776.1	1776.1
27.5°	1709.2	1700.2	1727.9	1722.1	1722.1
30°	1669.5	1660.6	1689.7	1682.4	1682.4
32.5°	1625.5	1619.4	1647.1	1638.3	1638.3
35°	1555.7	1552.1	1579.5	1568.5	1568.5
37.5°	1483.7	1480.4	1505.3	1492.0	1487.7
40°	1430.8	1429.0	1451.0	1436.3	1436.3
42.5°	1377.9	1376.1	1395.1	1377.5	1377.5
45°	1296.7	1293.1	1305.9	1289.3	1285.7
47.5°	1208.2	1204.6	1212.6	1194.5	1192.7
50°	1147.9	1144.3	1147.9	1131.4	1129.6
52.5°	1086.2	1079.7	1080.3	1063.8	1063.4
55°	991.8	979.2	978.9	964.3	964.3
57.5°	891.9	875.4	876.8	864.3	862.5
60°	822.8	804.9	806.3	795.2	793.4
62.5°	755.2	734.4	738.7	726.2	725.9
65°	642.8	628.5	630.0	624.5	624.5
67.5°	534.8	521.6	531.2	526.8	526.4
70°	455.5	446.5	459.2	459.1	457.3
72.5°	382.0	381.7	397.5	397.5	398.6
75°	277.3	289.9	306.7	308.6	308.6
77.5°	185.1	207.4	225.9	226.6	226.3
80°	132.2	157.4	174.5	178.1	176.3
82.5°	89.6	116.2	130.4	134.0	132.2
85°	40.4	62.0	73.5	75.3	73.5
87.5°	11.8	24.7	29.4	29.3	26.4
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.1	26.9	62.5	18.2	13.7
95°	16.5	65.6	294.6	102.0	62.9
97.5°	30.3	76.8	453.7	324.7	222.5
100°	40.0	83.5	488.3	494.6	381.0
102.5°	50.7	90.6	480.6	633.0	533.8
105°	67.3	102.1	441.3	779.4	740.9
107.5°	84.2	115.4	395.3	820.7	855.0
110°	95.9	125.1	368.9	804.9	881.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	107.0	134.7	351.1	767.6	877.3
115°	125.1	151.2	334.6	708.8	832.4
117.5°	141.0	165.4	324.8	644.6	775.5
120°	153.7	174.1	323.8	607.9	733.3
122.5°	163.8	184.3	321.3	575.7	692.2
125°	176.5	195.8	319.4	530.0	633.6
127.5°	190.3	208.4	318.3	502.6	588.1
130°	197.5	215.5	316.8	483.6	558.1
132.5°	205.1	222.6	316.8	468.7	537.3
135°	215.9	233.9	315.6	447.7	506.0
137.5°	226.0	243.5	315.4	429.8	480.3
140°	233.7	251.7	314.9	415.1	463.5
142.5°	242.3	257.3	316.4	403.3	446.7
145°	254.6	267.6	318.1	387.5	422.2
147.5°	265.1	277.8	320.9	371.5	401.5
150°	274.3	283.0	321.9	366.2	387.3
152.5°	281.4	290.6	322.9	359.0	378.7
155°	290.8	297.6	325.7	350.2	364.4
157.5°	302.5	306.6	326.3	346.1	356.3
160°	308.6	311.7	328.9	343.1	351.7
162.5°	312.1	315.7	329.4	340.5	347.2
165°	321.3	322.5	329.5	336.6	341.6
167.5°	327.5	326.4	332.4	335.7	337.6
170°	329.5	328.9	331.4	332.1	334.6
172.5°	334.1	332.0	333.0	331.1	333.1
175°	336.5	334.6	333.3	331.4	328.9
177.5°	337.5	334.5	333.0	330.9	331.4
180°	334.0	334.0	334.0	334.0	334.0

(END OF REPORT)