

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: P562555

Luminaire Tested: **SQ4-PC3-025U-100D-830-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562555  
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-100D-830-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

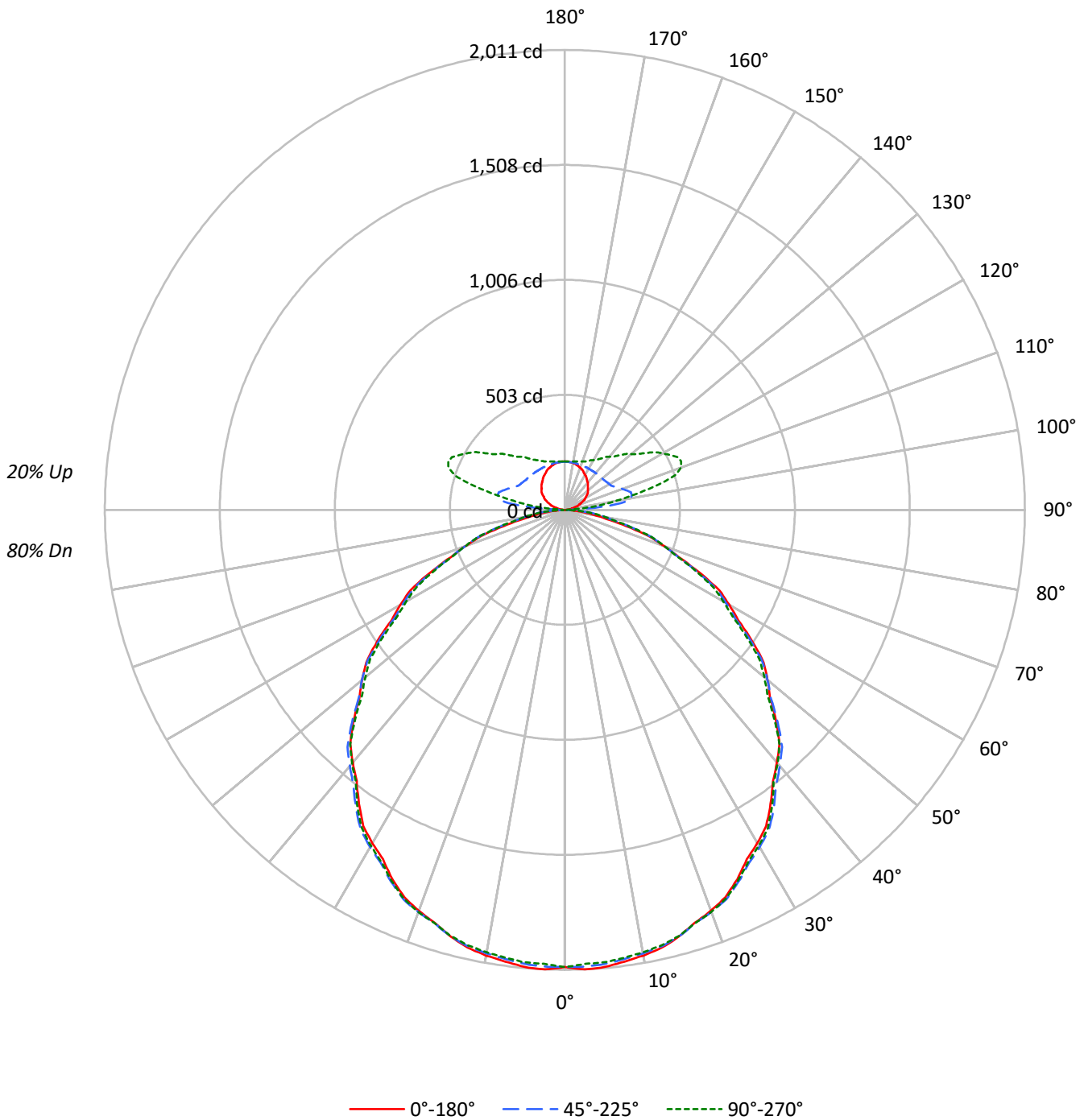
Lumens per Lamp: N/A  
Luminaire Lumens: 6825.3 lumens  
Efficiency: N/A  
Efficacy: 107.5 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 63.5  
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	0
RCR																		
0	114	114	114	114	109	109	109	109	100	100	100	91	91	91	84	84	84	80
1	105	100	96	92	100	96	92	89	88	85	83	81	79	77	74	72	71	68
2	95	88	81	76	91	84	78	73	77	73	69	71	67	64	65	62	60	57
3	87	77	69	63	83	74	67	61	68	62	58	63	58	54	58	54	51	48
4	80	68	60	53	76	66	58	52	61	54	49	56	51	46	52	47	44	41
5	73	61	52	46	70	59	51	45	54	48	43	50	45	40	46	42	38	36
6	68	55	46	40	64	53	45	39	49	42	37	45	40	35	42	37	34	31
7	63	50	41	35	60	48	40	34	45	38	33	41	36	31	38	34	30	28
8	58	45	37	31	56	44	36	31	41	34	29	38	32	28	35	30	27	25
9	54	41	33	28	52	40	33	28	37	31	26	35	29	25	33	28	24	22
10	51	38	30	25	49	37	30	25	35	28	24	32	27	23	30	25	22	20

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

	0°	45°	90°
0°	12297	12297	12297
5°	12391	12310	12265
10°	12360	12302	12268
15°	12295	12295	12283
20°	12215	12251	12251
25°	12099	12187	12149
30°	11952	12096	12043
35°	11774	11955	11871
40°	11579	11743	11624
45°	11369	11449	11272
50°	11071	11071	10894
55°	10720	10581	10422
60°	10203	9998	9838
65°	9430	9242	9160
70°	8256	8323	8291
75°	6642	7348	7391
80°	4722	6231	6294
85°	2872	5222	5222



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	189.2	2.8
10°-20°	543.0	8.0
20°-30°	822.3	12.0
30°-40°	985.8	14.4
40°-50°	1005.2	14.7
50°-60°	877.5	12.9
60°-70°	628.2	9.2
70°-80°	323.6	4.7
80°-90°	82.9	1.2
90°-100°	102.8	1.5
100°-110°	270.3	4.0
110°-120°	280.3	4.1
120°-130°	224.9	3.3
130°-140°	176.4	2.6
140°-150°	135.4	2.0
150°-160°	97.5	1.4
160°-170°	59.7	0.9
170°-180°	20.2	0.3
0°-30°	1554.5	22.8
0°-40°	2540.3	37.2
0°-60°	4423.0	64.8
0°-90°	5457.7	80.0
90°-120°	653.5	9.6
90°-150°	1190.2	17.4
90°-180°	1368.0	20.0
0°-180°	6825.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1999	1999	1999	1999	1999	
5°	2007	1987	1994	1988	1986	190
15°	1931	1915	1931	1931	1929	544
25°	1783	1770	1796	1790	1790	820
35°	1568	1564	1592	1581	1581	981
45°	1307	1303	1316	1300	1296	1006
55°	1000	987	987	972	972	891
65°	648	634	635	629	629	641
75°	280	292	309	311	311	302
85°	41	62	74	76	74	55
90°	1	4	11	5	5	3
95°	14	53	177	91	62	15
105°	49	74	299	454	423	52
115°	87	105	239	478	545	85
125°	120	135	218	368	434	107
135°	143	158	211	297	337	111
145°	166	177	208	253	273	104
155°	188	193	208	229	235	86
165°	203	206	208	216	219	57
175°	211	211	210	212	212	20
180°	211	211	211	211	211	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1999.3	1999.3	1999.3	1999.3	1999.3
2.5°	2011.2	1993.8	1999.3	1994.7	1987.5
5°	2006.8	1986.8	1993.8	1988.2	1986.4
7.5°	1992.3	1972.4	1981.6	1977.8	1976.0
10°	1979.0	1959.1	1969.7	1966.0	1964.2
12.5°	1961.2	1942.7	1954.9	1951.2	1950.8
15°	1930.8	1914.6	1930.8	1930.8	1929.0
17.5°	1892.7	1877.9	1895.3	1896.4	1895.3
20°	1866.1	1849.8	1871.6	1869.8	1871.6
22.5°	1833.5	1820.1	1843.5	1838.7	1840.5
25°	1782.7	1770.1	1795.7	1790.2	1790.2
27.5°	1722.8	1713.7	1741.7	1735.7	1735.7
30°	1682.8	1673.7	1703.1	1695.7	1695.7
32.5°	1638.4	1632.2	1660.2	1651.3	1651.3
35°	1568.0	1564.4	1592.1	1581.0	1581.0
37.5°	1495.4	1492.2	1517.3	1503.9	1499.5
40°	1442.1	1440.3	1462.5	1447.7	1447.7
42.5°	1388.8	1387.0	1406.2	1388.4	1388.4
45°	1307.0	1303.4	1316.2	1299.5	1295.9
47.5°	1217.7	1214.1	1222.2	1204.0	1202.2
50°	1157.0	1153.4	1157.0	1140.3	1138.5
52.5°	1094.8	1088.3	1088.9	1072.2	1071.9
55°	999.7	987.0	986.7	971.9	971.9
57.5°	899.0	882.3	883.8	871.2	869.3
60°	829.4	811.3	812.7	801.5	799.7
62.5°	761.2	740.2	744.6	732.0	731.6
65°	647.9	633.5	635.0	629.4	629.4
67.5°	539.1	525.7	535.4	530.9	530.6
70°	459.1	450.1	462.8	462.8	461.0
72.5°	385.1	384.7	400.6	400.6	401.7
75°	279.5	292.2	309.2	311.0	311.0
77.5°	186.6	209.1	227.7	228.4	228.1
80°	133.3	158.6	175.9	179.5	177.7
82.5°	90.3	117.1	131.4	135.1	133.3
85°	40.7	62.4	74.0	75.9	74.0
87.5°	12.1	25.7	31.8	30.6	27.7
90°	1.4	4.0	10.8	5.4	5.4
92.5°	5.7	27.4	60.6	26.8	17.3
95°	13.5	53.2	177.2	91.3	62.2
97.5°	23.5	58.4	265.1	210.8	155.3
100°	31.1	62.8	292.1	296.1	229.9
102.5°	37.6	67.2	299.7	368.8	312.2
105°	48.7	73.8	298.9	453.8	423.3
107.5°	60.1	83.3	281.9	497.9	505.3
110°	67.6	88.8	267.8	509.3	541.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	75.2	95.3	254.8	502.1	550.8
115°	86.6	105.1	239.4	477.6	545.1
117.5°	97.7	114.6	228.8	443.7	518.6
120°	104.1	120.0	224.5	420.9	493.7
122.5°	110.6	126.5	221.3	398.2	469.9
125°	120.4	134.9	217.8	368.0	434.2
127.5°	128.2	143.0	214.8	343.7	399.5
130°	132.5	148.4	213.7	328.5	380.1
132.5°	136.9	152.7	212.6	315.4	361.7
135°	143.4	157.9	211.0	297.1	336.8
137.5°	150.1	164.4	210.7	283.4	316.0
140°	155.5	168.8	209.6	272.6	303.0
142.5°	159.9	172.0	209.6	264.9	291.1
145°	166.4	176.9	208.3	253.4	273.2
147.5°	172.9	183.2	208.3	243.8	260.2
150°	177.2	186.4	208.3	238.3	251.6
152.5°	181.5	188.7	208.3	233.9	244.0
155°	188.0	193.3	208.3	228.7	235.3
157.5°	192.9	197.9	208.3	224.1	228.8
160°	196.1	200.1	208.3	221.9	224.5
162.5°	199.4	202.3	208.3	219.7	222.4
165°	202.9	205.5	208.3	216.5	219.1
167.5°	206.1	207.4	209.6	215.1	216.1
170°	208.3	209.6	209.6	215.1	215.1
172.5°	209.4	209.6	209.6	213.9	212.9
175°	211.0	211.0	209.6	212.3	212.3
177.5°	211.0	211.0	209.9	212.1	211.0
180°	211.0	211.0	211.0	211.0	211.0

(END OF REPORT)