

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: P562651

Luminaire Tested: **SQ4-PC3-050U-100D-830-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562651  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-PC3-050U-100D-830-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

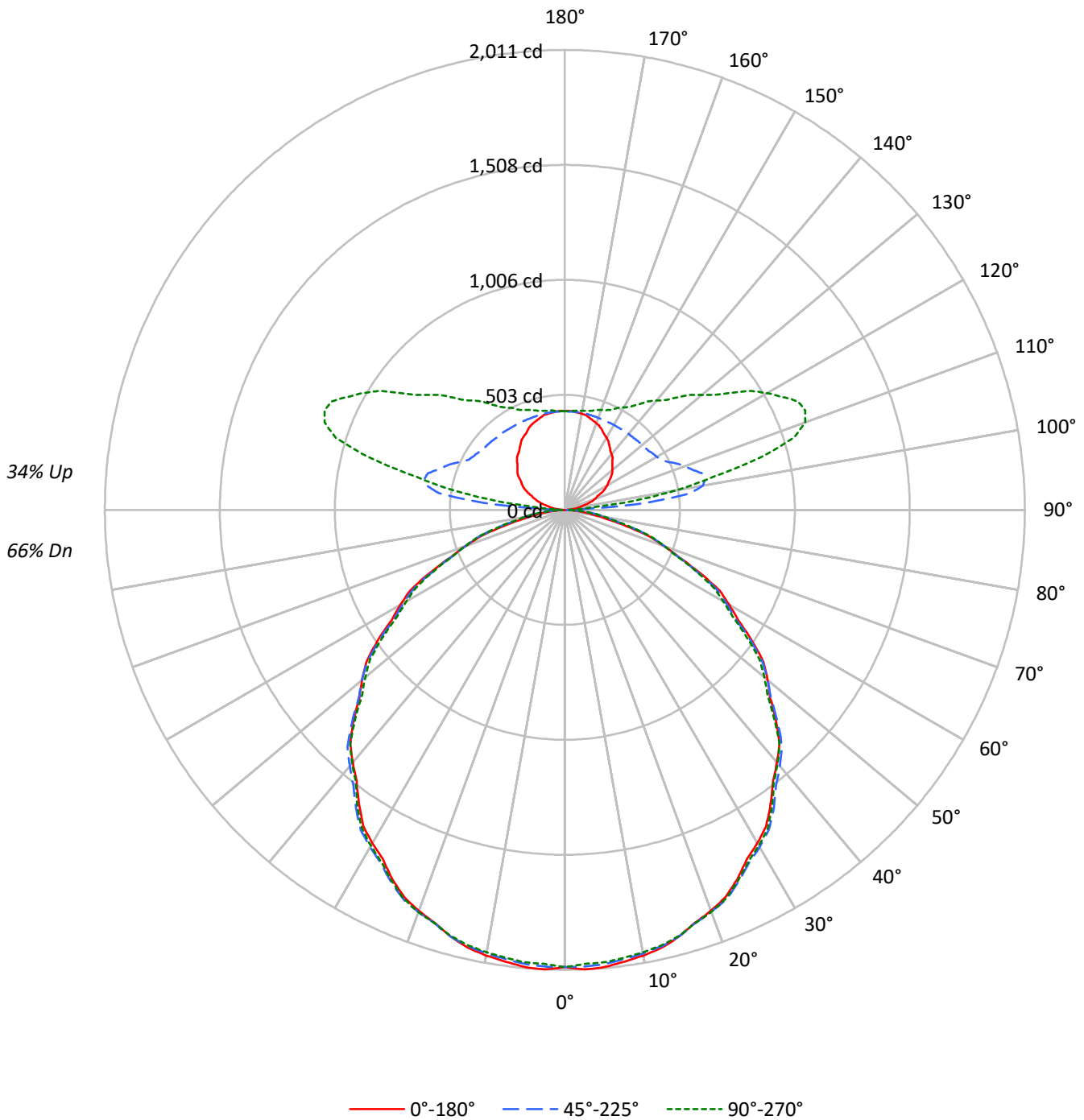
Lumens per Lamp: N/A  
Luminaire Lumens: 8278.5 lumens  
Efficiency: N/A  
Efficacy: 112.8 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 73.4  
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	111	111	111	111	104	104	104	104	92	92	92	81	81	81	71	71	71	66				
1	101	97	93	90	95	91	88	85	81	78	76	72	70	68	63	61	60	56				
2	92	85	78	73	87	80	74	70	71	67	63	63	60	57	55	53	51	47				
3	84	75	67	61	79	70	64	58	63	57	53	56	51	48	49	46	43	39				
4	77	66	58	52	72	62	55	49	56	50	45	49	45	41	44	40	37	34				
5	71	59	50	44	66	56	48	42	50	44	39	44	39	36	39	35	32	29				
6	65	53	44	38	61	50	43	37	45	39	34	40	35	31	36	32	28	26				
7	60	48	40	34	57	45	38	33	41	35	30	37	31	28	32	28	25	23				
8	56	43	35	30	53	41	34	29	37	31	27	33	28	25	30	26	22	20				
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	28	23	20	18				
10	49	36	29	24	46	35	28	23	32	26	22	28	23	20	26	21	18	17				

**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	2.3
10°-20°	543.0	6.6
20°-30°	822.3	9.9
30°-40°	985.8	11.9
40°-50°	1005.2	12.1
50°-60°	877.5	10.6
60°-70°	628.2	7.6
70°-80°	323.6	3.9
80°-90°	83.5	1.0
90°-100°	207.4	2.5
100°-110°	563.3	6.8
110°-120°	579.1	7.0
120°-130°	463.0	5.6
130°-140°	363.8	4.4
140°-150°	279.0	3.4
150°-160°	200.6	2.4
160°-170°	122.7	1.5
170°-180°	41.3	0.5
0°-30°	1554.5	18.8
0°-40°	2540.3	30.7
0°-60°	4423.0	53.4
0°-90°	5458.3	65.9
90°-120°	1349.8	16.3
90°-150°	2455.6	29.7
90°-180°	2820.0	34.1
0°-180°	8278.5	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	6	10	12	12	4
95°	31	113	361	157	106	32
105°	100	156	619	943	888	106
115°	178	216	496	986	1124	175
125°	244	278	449	756	892	218
135°	294	327	436	616	694	228
145°	340	365	430	523	562	214
155°	385	398	428	470	483	177
165°	417	422	429	447	449	118
175°	432	433	430	436	435	41
180°	432	432	432	432	432	

TEST NUMBER: P562651

CATALOG NUMBER: SQ4-PC3-050U-100D-830-1D-UNV-STD-W-6

**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	26.0	31.6	32.1	29.2
90°	1.4	5.5	9.7	12.5	12.5
92.5°	12.5	56.8	98.6	42.4	35.8
95°	30.6	113.4	361.1	157.2	105.6
97.5°	50.6	125.2	553.6	430.7	302.5
100°	63.9	133.1	612.5	620.9	501.4
102.5°	77.2	141.0	628.0	767.9	662.5
105°	100.0	155.7	619.4	943.2	887.5
107.5°	123.6	172.8	583.6	1033.7	1049.1
110°	140.3	185.1	556.9	1051.5	1118.0

TEST NUMBER: P562651

CATALOG NUMBER: SQ4-PC3-050U-100D-830-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	154.7	197.4	530.3	1036.7	1136.9
115°	177.8	215.8	495.8	986.4	1123.6
117.5°	199.4	235.8	473.9	915.2	1069.7
120°	213.9	249.2	463.9	867.4	1020.8
122.5°	226.1	261.4	457.2	819.5	967.5
125°	244.4	278.4	448.6	755.8	891.6
127.5°	260.8	294.5	443.9	707.6	824.2
130°	270.8	303.4	441.7	677.4	781.9
132.5°	280.8	313.4	439.4	651.5	744.2
135°	294.4	327.0	436.1	615.7	694.4
137.5°	309.2	338.8	434.4	584.0	650.3
140°	318.0	346.6	433.3	563.8	623.6
142.5°	326.9	353.3	432.2	548.1	598.0
145°	340.3	364.7	430.5	523.1	562.5
147.5°	355.3	376.2	429.2	503.5	534.4
150°	365.3	382.9	429.2	492.2	516.7
152.5°	373.0	388.5	428.0	482.1	502.2
155°	384.7	398.3	427.8	469.7	483.3
157.5°	396.1	406.7	427.8	461.3	471.7
160°	402.8	412.3	427.8	455.7	463.9
162.5°	409.4	416.8	428.9	451.2	457.2
165°	416.7	422.1	429.2	447.2	448.6
167.5°	424.2	426.9	430.5	442.5	443.6
170°	426.4	429.1	430.5	440.3	440.3
172.5°	428.6	430.2	430.5	438.0	438.0
175°	431.9	433.3	430.5	436.1	434.7
177.5°	433.0	433.0	429.7	434.1	431.9
180°	431.9	431.9	431.9	431.9	431.9

(END OF REPORT)