

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: P562937

Luminaire Tested: **SQ4-PC3-100U-100D-830-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562937
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-PC3-100U-100D-830-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

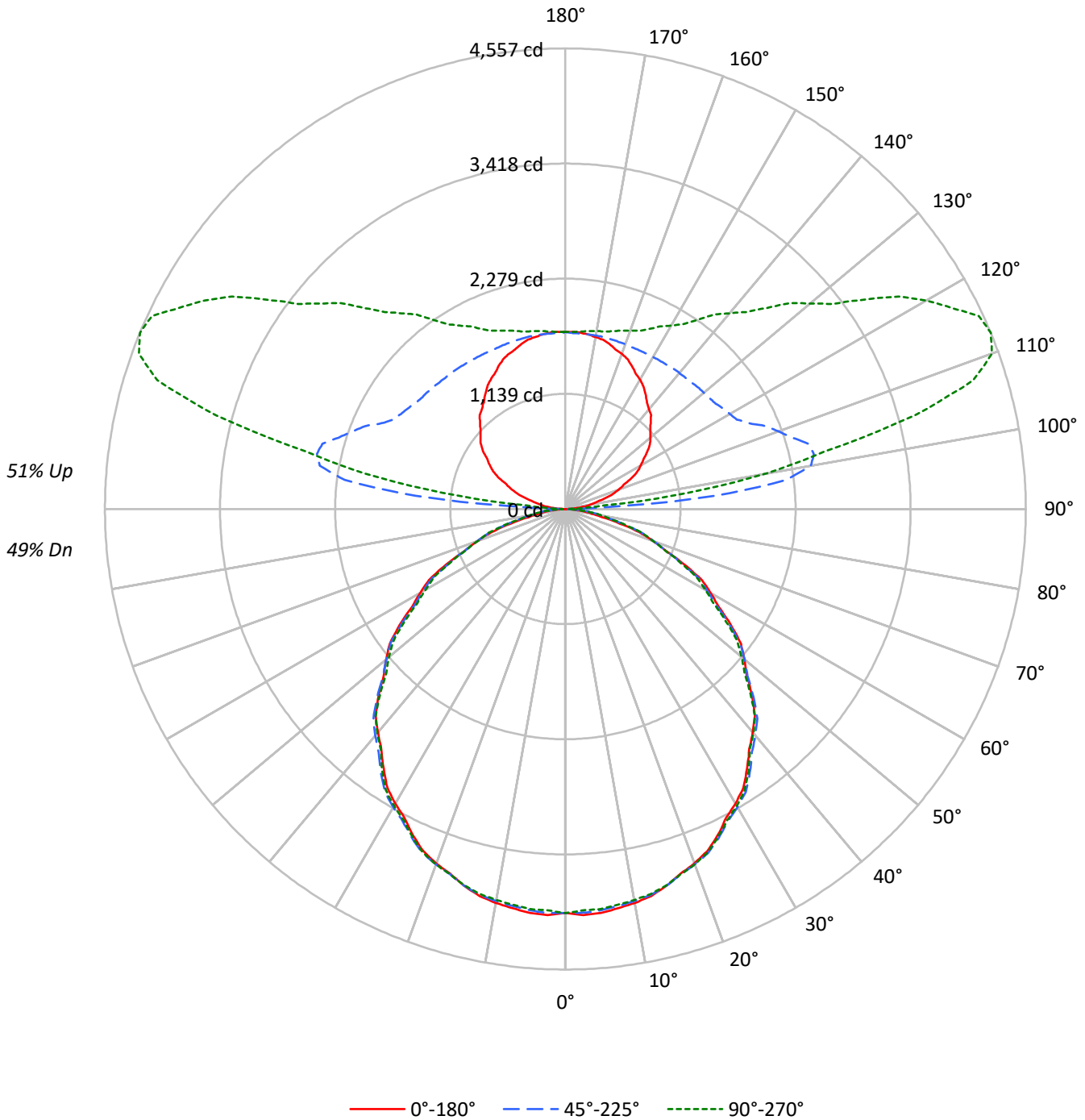
Lumens per Lamp: N/A
Luminaire Lumens: 22289.7 lumens
Efficiency: N/A
Efficacy: 122.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 182.2
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	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49				
1	98	93	89	86	90	86	83	80	73	70	68	60	59	57	49	48	47	41				
2	89	81	75	70	82	75	70	66	64	60	56	53	50	48	43	41	39	35				
3	81	72	64	58	74	66	60	55	56	51	47	47	43	40	38	36	33	29				
4	74	63	55	49	68	59	52	46	50	45	40	42	38	34	34	31	29	25				
5	68	56	48	42	62	52	45	40	45	39	35	37	33	30	31	28	25	22				
6	63	51	42	37	57	47	40	34	40	34	30	34	29	26	28	24	22	19				
7	58	46	38	32	53	42	35	30	36	31	27	31	26	23	25	22	20	17				
8	54	41	34	28	49	38	32	27	33	28	24	28	24	20	23	20	17	15				
9	50	38	30	25	46	35	28	24	30	25	21	26	21	18	21	18	16	14				
10	47	35	27	23	43	32	26	21	28	23	19	24	20	17	20	17	14	12				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12298	12298	12298
5°	12390	12310	12265
10°	12360	12302	12267
15°	12295	12295	12283
20°	12214	12251	12251
25°	12099	12187	12149
30°	11952	12096	12044
35°	11774	11954	11871
40°	11579	11743	11624
45°	11369	11449	11272
50°	11072	11072	10894
55°	10720	10581	10422
60°	10202	9998	9838
65°	9430	9242	9160
70°	8256	8323	8290
75°	6643	7347	7391
80°	4722	6229	6294
85°	2876	5226	5226



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	378.4	1.7
10°-20°	1086.0	4.9
20°-30°	1644.6	7.4
30°-40°	1971.7	8.8
40°-50°	2010.4	9.0
50°-60°	1755.0	7.9
60°-70°	1256.4	5.6
70°-80°	647.1	2.9
80°-90°	167.3	0.8
90°-100°	819.7	3.7
100°-110°	2262.9	10.2
110°-120°	2333.8	10.5
120°-130°	1875.4	8.4
130°-140°	1473.9	6.6
140°-150°	1130.4	5.1
150°-160°	812.4	3.6
160°-170°	496.8	2.2
170°-180°	167.5	0.8
0°-30°	3109.0	13.9
0°-40°	5080.7	22.8
0°-60°	8846.0	39.7
0°-90°	10916.8	49.0
90°-120°	5416.4	24.3
90°-150°	9896.1	44.4
90°-180°	11373.0	51.0
0°-180°	22289.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3999	3999	3999	3999	3999	
5°	4014	3974	3988	3976	3973	381
15°	3862	3829	3862	3862	3858	1089
25°	3566	3540	3591	3580	3580	1641
35°	3136	3129	3184	3162	3162	1961
45°	2614	2607	2632	2599	2592	2012
55°	1999	1974	1973	1944	1944	1782
65°	1296	1267	1270	1259	1259	1282
75°	559	584	618	622	622	604
85°	82	125	148	152	148	111
90°	6	11	22	25	28	12
95°	120	444	1487	611	398	129
105°	403	622	2490	3801	3579	429
115°	722	873	2005	3970	4514	710
125°	991	1128	1818	3076	3610	882
135°	1193	1322	1767	2491	2809	923
145°	1384	1479	1745	2121	2282	866
155°	1560	1612	1731	1903	1963	719
165°	1689	1711	1739	1807	1820	476
175°	1750	1753	1742	1767	1762	166
180°	1750	1750	1750	1750	1750	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3998.7	3998.7	3998.7	3998.7	3998.7
2.5°	4022.4	3987.6	3998.7	3989.5	3975.0
5°	4013.5	3973.7	3987.6	3976.4	3972.8
7.5°	3984.6	3944.8	3963.1	3955.7	3952.0
10°	3958.0	3918.1	3939.5	3932.0	3928.3
12.5°	3922.4	3885.5	3909.8	3902.4	3901.7
15°	3861.7	3829.1	3861.7	3861.6	3858.0
17.5°	3785.4	3755.7	3790.6	3792.8	3790.6
20°	3732.1	3699.5	3743.2	3739.6	3743.2
22.5°	3666.9	3640.2	3686.9	3677.4	3681.0
25°	3565.5	3540.2	3591.4	3580.3	3580.3
27.5°	3445.5	3427.4	3483.3	3471.5	3471.5
30°	3365.6	3347.5	3406.3	3391.5	3391.5
32.5°	3276.7	3264.4	3320.4	3302.6	3302.6
35°	3136.0	3128.8	3184.1	3161.9	3161.9
37.5°	2990.9	2984.4	3034.6	3007.7	2999.0
40°	2884.2	2880.6	2925.0	2895.3	2895.3
42.5°	2777.6	2774.0	2812.4	2776.9	2776.9
45°	2614.0	2606.7	2632.5	2599.0	2591.7
47.5°	2435.5	2428.3	2444.4	2408.0	2404.4
50°	2314.1	2306.8	2314.1	2280.7	2277.0
52.5°	2189.7	2176.6	2177.8	2144.5	2143.7
55°	1999.3	1974.0	1973.4	1943.8	1943.8
57.5°	1797.9	1764.6	1767.6	1742.3	1738.7
60°	1658.7	1622.5	1625.4	1603.1	1599.5
62.5°	1522.5	1480.5	1489.1	1463.9	1463.2
65°	1295.9	1266.9	1270.0	1258.8	1258.8
67.5°	1078.2	1051.4	1070.8	1061.9	1061.1
70°	918.2	900.1	925.6	925.5	921.9
72.5°	770.1	769.4	801.2	801.3	803.4
75°	559.1	584.4	618.3	622.0	622.0
77.5°	373.2	418.1	455.4	456.9	456.1
80°	266.6	317.3	351.7	359.1	355.4
82.5°	180.7	234.3	262.9	270.2	266.6
85°	81.5	124.9	148.1	151.7	148.1
87.5°	24.8	52.0	63.7	64.2	58.9
90°	5.6	11.1	22.4	25.3	28.0
92.5°	50.4	209.2	374.2	136.5	106.4
95°	120.4	443.5	1487.1	611.3	397.7
97.5°	199.4	496.8	2202.9	1696.0	1228.3
100°	257.7	528.7	2467.3	2484.7	2019.2
102.5°	313.7	565.0	2518.8	3070.0	2628.6
105°	403.3	622.3	2489.7	3800.9	3579.1
107.5°	498.5	693.5	2350.8	4153.4	4234.5
110°	565.7	741.0	2243.3	4229.2	4492.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	626.2	794.9	2142.4	4169.3	4557.1
115°	722.5	873.2	2005.2	3969.6	4514.5
117.5°	806.6	956.6	1915.0	3688.4	4308.4
120°	862.6	1010.4	1879.2	3498.1	4122.4
122.5°	916.3	1057.6	1850.1	3320.4	3911.8
125°	991.4	1128.3	1817.6	3076.0	3609.9
127.5°	1055.3	1192.2	1798.5	2869.3	3329.9
130°	1097.8	1234.7	1789.6	2742.9	3161.8
132.5°	1138.2	1268.5	1780.6	2636.7	3016.2
135°	1193.0	1321.7	1767.2	2491.3	2809.0
137.5°	1254.7	1371.9	1760.4	2369.3	2640.4
140°	1288.3	1403.3	1756.0	2287.9	2526.1
142.5°	1326.4	1432.6	1751.5	2215.5	2425.3
145°	1383.5	1479.3	1744.8	2120.9	2282.5
147.5°	1438.4	1522.2	1738.6	2041.1	2166.5
150°	1478.7	1547.2	1736.4	1993.5	2094.8
152.5°	1510.1	1574.1	1734.1	1952.8	2036.6
155°	1559.9	1611.9	1730.8	1903.0	1963.2
157.5°	1605.8	1645.8	1731.3	1866.7	1907.8
160°	1632.7	1668.3	1733.6	1846.3	1876.4
162.5°	1655.1	1686.4	1735.8	1828.2	1851.7
165°	1688.7	1710.7	1739.2	1806.7	1820.4
167.5°	1714.5	1727.7	1742.0	1793.6	1798.0
170°	1728.0	1738.9	1742.0	1786.8	1786.8
172.5°	1739.2	1745.7	1742.0	1777.8	1775.6
175°	1750.4	1753.1	1742.0	1767.0	1761.6
177.5°	1754.8	1752.6	1741.4	1757.0	1752.6
180°	1750.4	1750.4	1750.4	1750.4	1750.4

(END OF REPORT)