

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: P563561

Luminaire Tested: **SQ4-PP3-100U-050D-830-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563561
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-100U-050D-830-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

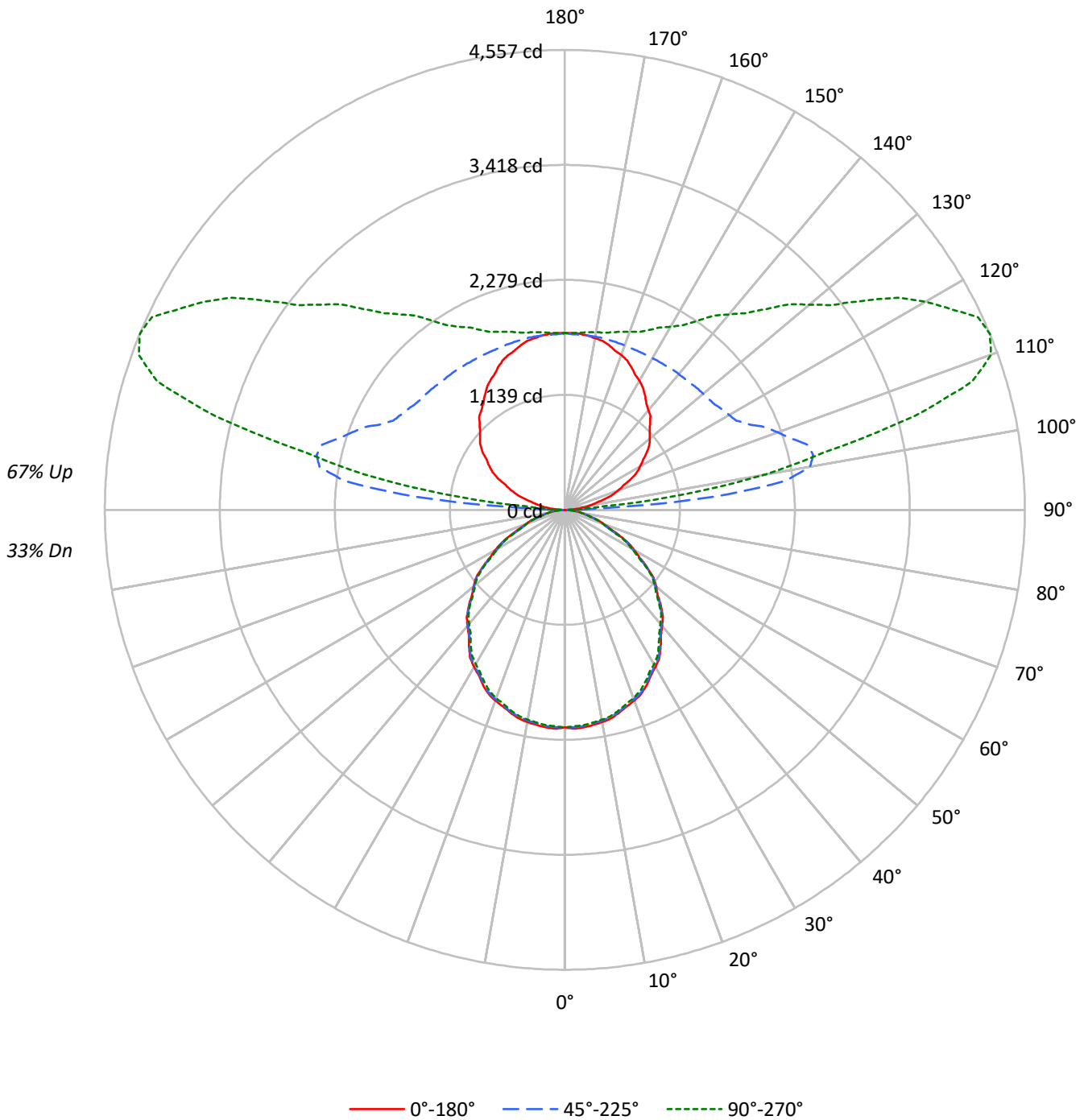
Lumens per Lamp: N/A
Luminaire Lumens: 16896.4 lumens
Efficiency: N/A
Efficacy: 132.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 127.4
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	0
RCR																		
0	103	103	103	103	93	93	93	93	74	74	74	56	56	56	40	40	40	33
1	94	90	86	83	85	81	78	75	65	63	61	50	48	47	36	35	34	28
2	86	79	73	68	77	71	66	62	57	53	50	44	41	39	32	30	29	23
3	78	69	62	56	70	63	57	52	50	46	42	39	36	33	28	26	25	20
4	71	61	53	48	64	55	49	44	45	40	36	34	31	29	25	23	21	17
5	66	54	47	41	59	49	43	37	40	35	31	31	27	25	23	20	19	15
6	60	49	41	35	54	44	37	32	36	31	27	28	24	22	20	18	16	13
7	56	44	36	31	50	40	33	28	32	27	24	25	22	19	19	16	15	12
8	52	40	32	27	46	36	30	25	29	24	21	23	20	17	17	15	13	10
9	48	36	29	24	43	33	27	22	27	22	19	21	18	15	16	13	12	9
10	45	33	26	21	40	30	24	20	25	20	17	19	16	14	15	12	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6633	6633	6633
5°	6681	6640	6617
10°	6670	6623	6593
15°	6626	6590	6554
20°	6582	6545	6495
25°	6504	6459	6395
30°	6383	6350	6269
35°	6216	6174	6096
40°	6018	5980	5911
45°	5853	5812	5755
50°	5643	5607	5553
55°	5351	5280	5240
60°	4871	4732	4708
65°	4291	4113	4099
70°	3706	3552	3552
75°	3189	3144	3099
80°	2812	2846	2779
85°	2202	2399	2399



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.9	1.2
10°-20°	582.3	3.4
20°-30°	872.2	5.2
30°-40°	1023.1	6.1
40°-50°	1026.2	6.1
50°-60°	875.5	5.2
60°-70°	570.9	3.4
70°-80°	286.5	1.7
80°-90°	82.9	0.5
90°-100°	819.7	4.9
100°-110°	2262.9	13.4
110°-120°	2333.8	13.8
120°-130°	1875.4	11.1
130°-140°	1473.9	8.7
140°-150°	1130.4	6.7
150°-160°	812.4	4.8
160°-170°	496.8	2.9
170°-180°	167.5	1.0
0°-30°	1658.4	9.8
0°-40°	2681.5	15.9
0°-60°	4583.2	27.1
0°-90°	5523.5	32.7
90°-120°	5416.4	32.1
90°-150°	9896.1	58.6
90°-180°	11373.0	67.3
0°-180°	16896.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2157	2157	2157	2157	2157	
5°	2164	2144	2151	2143	2143	206
15°	2081	2061	2070	2062	2058	587
25°	1917	1894	1903	1886	1884	881
35°	1656	1639	1644	1626	1624	1034
45°	1346	1337	1336	1323	1323	1036
55°	998	994	985	979	977	887
65°	590	579	565	561	563	589
75°	268	268	265	263	261	291
85°	62	68	68	68	68	73
90°	6	11	22	25	28	11
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°	2156.7	2156.7	2156.7	2156.7	2156.7
2.5°	2170.3	2152.5	2156.7	2153.5	2144.6
5°	2164.2	2143.9	2151.0	2143.4	2143.4
7.5°	2149.5	2127.3	2134.4	2126.8	2126.4
10°	2135.9	2113.7	2120.8	2113.2	2111.3
12.5°	2116.2	2094.1	2102.6	2093.5	2093.2
15°	2081.1	2060.7	2069.7	2062.1	2058.4
17.5°	2041.4	2019.2	2030.0	2019.4	2017.9
20°	2011.1	1989.0	1999.8	1984.7	1984.7
22.5°	1974.8	1952.7	1965.0	1945.4	1945.4
25°	1916.6	1894.5	1903.4	1886.3	1884.5
27.5°	1847.4	1825.6	1835.0	1815.7	1815.3
30°	1797.5	1777.2	1788.1	1767.3	1765.4
32.5°	1743.1	1724.3	1732.1	1711.3	1709.5
35°	1655.8	1639.2	1644.4	1625.5	1623.7
37.5°	1563.9	1546.9	1553.0	1536.7	1535.9
40°	1498.9	1487.8	1489.5	1476.1	1472.4
42.5°	1438.4	1425.8	1427.5	1414.2	1413.5
45°	1345.8	1336.6	1336.3	1323.1	1323.1
47.5°	1247.5	1240.5	1238.4	1227.5	1227.1
50°	1179.5	1173.9	1171.9	1162.4	1160.6
52.5°	1108.4	1105.8	1099.3	1091.4	1091.0
55°	998.0	994.3	984.8	979.1	977.2
57.5°	878.2	870.8	860.0	851.7	853.2
60°	792.0	784.6	769.3	765.5	765.5
62.5°	708.8	699.9	684.6	679.4	682.4
65°	589.7	578.6	565.2	561.4	563.3
67.5°	481.6	471.6	457.0	457.0	455.5
70°	412.1	406.5	395.0	395.0	395.0
72.5°	350.1	347.5	339.1	339.1	337.6
75°	268.4	268.4	264.6	262.7	260.8
77.5°	201.1	201.9	200.0	198.0	194.7
80°	158.8	162.5	160.7	158.7	156.9
82.5°	119.5	123.2	122.9	119.5	119.1
85°	62.4	67.9	68.0	68.0	68.0
87.5°	17.8	24.8	28.7	29.3	31.3
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)