

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: P563565

Luminaire Tested: **SQ4-PP3-100U-050D-835-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563565
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-835-1D-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: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

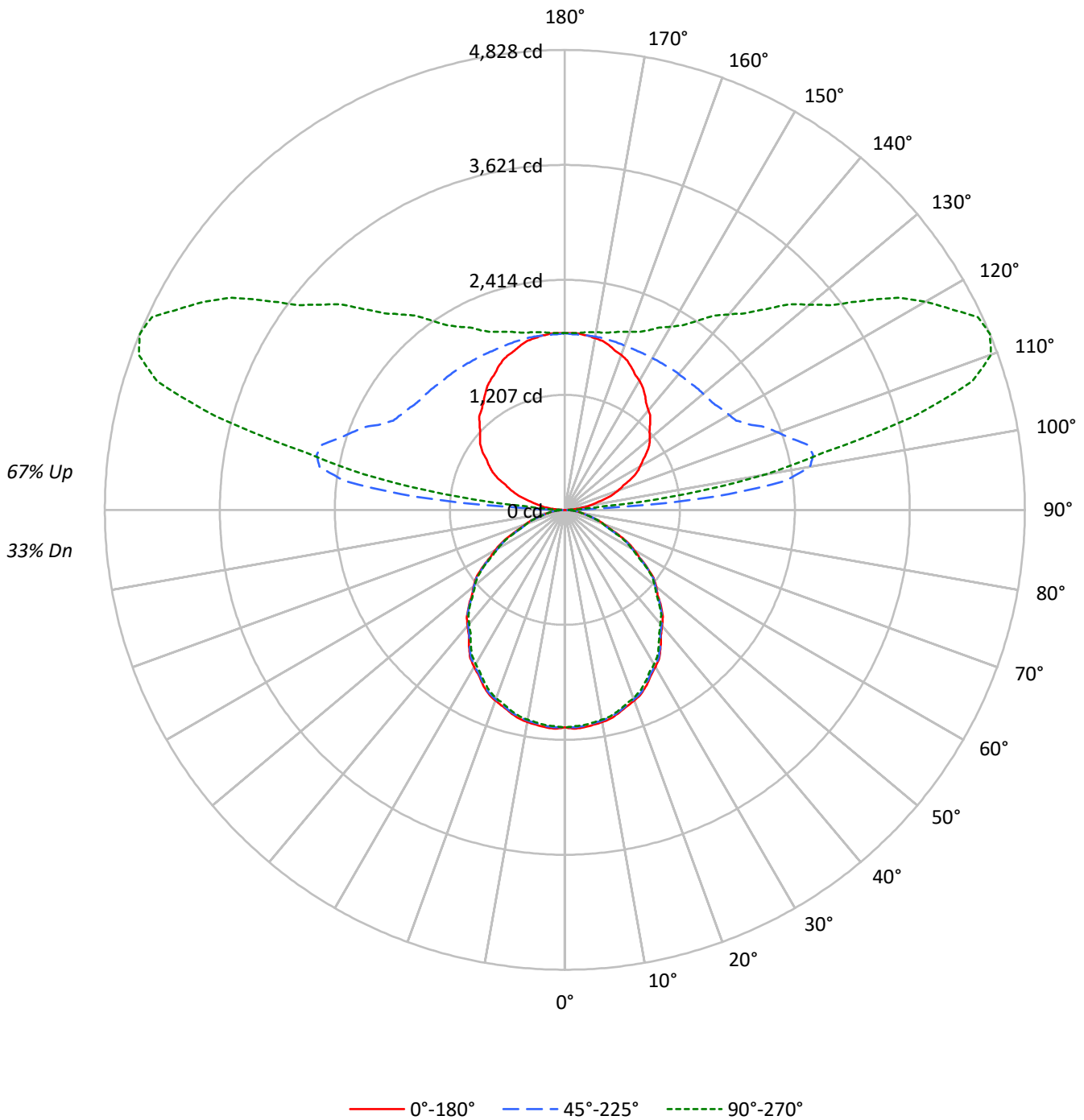
Lumens per Lamp: N/A
Luminaire Lumens: 17900.8 lumens
Efficiency: N/A
Efficacy: 140.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Indirect

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°	7027	7027	7027
5°	7079	7035	7011
10°	7067	7016	6985
15°	7020	6982	6943
20°	6973	6934	6881
25°	6890	6843	6775
30°	6763	6727	6642
35°	6586	6541	6458
40°	6375	6335	6263
45°	6201	6158	6097
50°	5979	5940	5883
55°	5669	5594	5551
60°	5161	5013	4988
65°	4547	4357	4343
70°	3926	3763	3763
75°	3379	3332	3283
80°	2979	3014	2943
85°	2332	2544	2544



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.1	1.2
10°-20°	616.9	3.4
20°-30°	924.1	5.2
30°-40°	1083.9	6.1
40°-50°	1087.3	6.1
50°-60°	927.5	5.2
60°-70°	604.9	3.4
70°-80°	303.5	1.7
80°-90°	87.8	0.5
90°-100°	868.4	4.9
100°-110°	2397.4	13.4
110°-120°	2472.6	13.8
120°-130°	1986.9	11.1
130°-140°	1561.5	8.7
140°-150°	1197.6	6.7
150°-160°	860.7	4.8
160°-170°	526.4	2.9
170°-180°	177.5	1.0
0°-30°	1757.0	9.8
0°-40°	2840.9	15.9
0°-60°	4855.7	27.1
0°-90°	5851.9	32.7
90°-120°	5738.4	32.1
90°-150°	10484.4	58.6
90°-180°	12049.0	67.3
0°-180°	17900.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2285	2285	2285	2285	2285	
5°	2293	2271	2279	2271	2271	218
15°	2205	2183	2193	2185	2181	622
25°	2031	2007	2016	1998	1996	934
35°	1754	1737	1742	1722	1720	1096
45°	1426	1416	1416	1402	1402	1098
55°	1057	1053	1043	1037	1035	940
65°	625	613	599	595	597	624
75°	284	284	280	278	276	309
85°	66	72	72	72	72	78
90°	6	12	24	27	30	12
95°	128	470	1576	648	421	137
105°	427	659	2638	4027	3792	455
115°	766	925	2124	4206	4783	752
125°	1050	1195	1926	3259	3824	935
135°	1264	1400	1872	2639	2976	978
145°	1466	1567	1848	2247	2418	918
155°	1653	1708	1834	2016	2080	762
165°	1789	1812	1842	1914	1929	504
175°	1854	1857	1846	1872	1866	176
180°	1854	1854	1854	1854	1854	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2284.9	2284.9	2284.9	2284.9	2284.9
2.5°	2299.3	2280.5	2284.9	2281.5	2272.1
5°	2292.9	2271.4	2278.9	2270.9	2270.9
7.5°	2277.3	2253.8	2261.2	2253.2	2252.8
10°	2262.9	2239.4	2246.8	2238.8	2236.8
12.5°	2242.0	2218.5	2227.6	2218.0	2217.6
15°	2204.8	2183.2	2192.8	2184.7	2180.7
17.5°	2162.7	2139.2	2150.7	2139.5	2137.9
20°	2130.7	2107.2	2118.7	2102.6	2102.6
22.5°	2092.2	2068.7	2081.8	2061.0	2061.0
25°	2030.6	2007.1	2016.5	1998.5	1996.5
27.5°	1957.3	1934.2	1944.0	1923.6	1923.2
30°	1904.4	1882.9	1894.4	1872.3	1870.4
32.5°	1846.7	1826.8	1835.1	1813.0	1811.1
35°	1754.2	1736.6	1742.2	1722.1	1720.2
37.5°	1656.9	1638.9	1645.3	1628.0	1627.3
40°	1588.0	1576.3	1578.0	1563.9	1560.0
42.5°	1523.9	1510.6	1512.3	1498.3	1497.5
45°	1425.8	1416.0	1415.8	1401.8	1401.8
47.5°	1321.7	1314.2	1312.1	1300.4	1300.0
50°	1249.6	1243.7	1241.6	1231.5	1229.5
52.5°	1174.3	1171.5	1164.7	1156.2	1155.9
55°	1057.3	1053.4	1043.3	1037.3	1035.3
57.5°	930.4	922.5	911.1	902.4	903.9
60°	839.1	831.2	815.0	811.0	811.0
62.5°	750.9	741.5	725.3	719.8	722.9
65°	624.8	613.0	598.8	594.8	596.8
67.5°	510.2	499.7	484.2	484.2	482.6
70°	436.6	430.7	418.5	418.5	418.5
72.5°	370.9	368.1	359.3	359.2	357.7
75°	284.4	284.4	280.4	278.3	276.3
77.5°	213.1	213.9	211.9	209.8	206.3
80°	168.2	172.1	170.2	168.2	166.2
82.5°	126.6	130.5	130.2	126.6	126.2
85°	66.1	72.0	72.1	72.1	72.1
87.5°	18.8	26.2	30.4	31.0	33.2
90°	5.9	11.7	23.7	26.8	29.7
92.5°	53.4	221.7	396.4	144.7	112.7
95°	127.6	469.9	1575.5	647.6	421.3
97.5°	211.3	526.3	2333.9	1796.9	1301.3
100°	273.0	560.2	2614.0	2632.4	2139.2
102.5°	332.3	598.6	2668.6	3252.5	2784.9
105°	427.3	659.3	2637.7	4026.9	3791.9
107.5°	528.1	734.7	2490.5	4400.3	4486.2
110°	599.3	785.0	2376.6	4480.6	4759.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	663.4	842.1	2269.8	4417.2	4828.0
115°	765.5	925.1	2124.4	4205.6	4782.9
117.5°	854.5	1013.5	2028.9	3907.7	4564.5
120°	913.9	1070.5	1990.9	3706.0	4367.5
122.5°	970.8	1120.5	1960.0	3517.7	4144.4
125°	1050.3	1195.4	1925.6	3258.8	3824.5
127.5°	1118.0	1263.0	1905.4	3039.9	3527.8
130°	1163.1	1308.1	1895.9	2905.9	3349.8
132.5°	1205.8	1343.9	1886.4	2793.4	3195.5
135°	1264.0	1400.3	1872.2	2639.4	2975.9
137.5°	1329.2	1453.4	1865.1	2510.1	2797.3
140°	1364.8	1486.7	1860.3	2423.9	2676.3
142.5°	1405.2	1517.8	1855.6	2347.2	2569.5
145°	1465.7	1567.3	1848.5	2247.0	2418.1
147.5°	1523.9	1612.6	1841.9	2162.4	2295.3
150°	1566.6	1639.1	1839.6	2112.0	2219.4
152.5°	1599.8	1667.7	1837.2	2068.9	2157.6
155°	1652.6	1707.8	1833.6	2016.1	2079.9
157.5°	1701.3	1743.7	1834.2	1977.6	2021.2
160°	1729.8	1767.5	1836.6	1956.0	1987.9
162.5°	1753.5	1786.6	1839.0	1936.9	1961.8
165°	1789.1	1812.3	1842.5	1914.1	1928.6
167.5°	1816.4	1830.4	1845.5	1900.2	1904.8
170°	1830.7	1842.3	1845.5	1893.0	1893.0
172.5°	1842.5	1849.5	1845.5	1883.4	1881.1
175°	1854.4	1857.3	1845.5	1872.1	1866.3
177.5°	1859.2	1856.8	1844.9	1861.4	1856.8
180°	1854.4	1854.4	1854.4	1854.4	1854.4

(END OF REPORT)