

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: P564045

Luminaire Tested: **SQ4-PR1-075U-050D-835-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564045
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-075U-050D-835-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

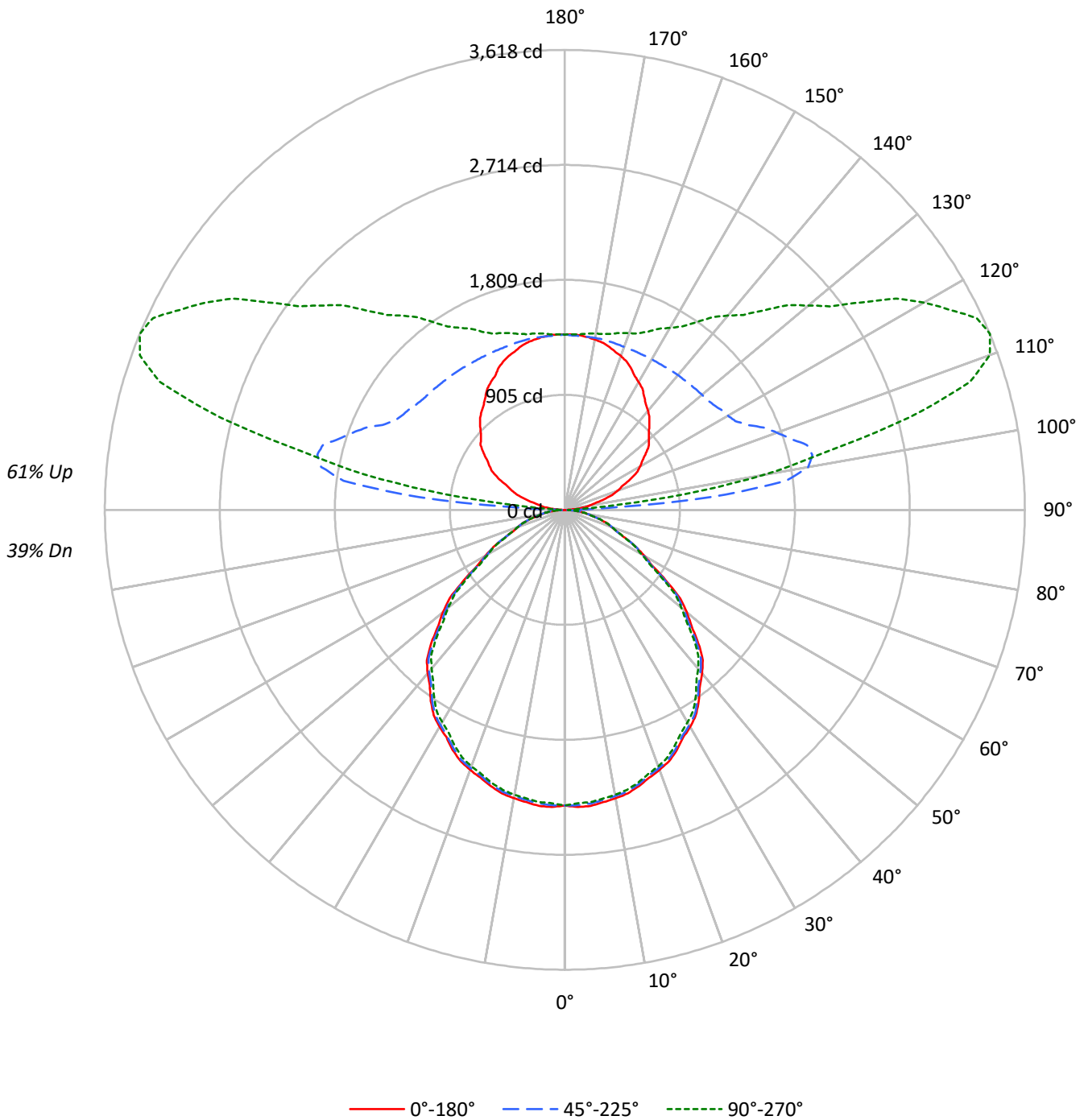
Lumens per Lamp: N/A
Luminaire Lumens: 14798.3 lumens
Efficiency: N/A
Efficacy: 137.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 107.4
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	105	105	105	105	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	96	91	88	84	87	83	80	77	68	66	64	54	53	51	41	40	39	34
2	87	80	74	69	79	73	68	64	60	56	53	48	45	43	37	35	34	28
3	80	71	63	58	72	64	58	53	53	49	45	42	39	37	33	31	29	24
4	73	63	55	49	66	57	51	45	47	42	38	38	34	32	29	27	25	21
5	67	56	48	42	61	51	44	39	42	37	33	34	30	27	26	24	22	18
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	24	21	19	16
7	57	45	37	32	52	41	35	30	34	29	25	28	24	21	22	19	17	14
8	53	41	33	28	48	38	31	26	31	26	23	26	22	19	20	17	15	13
9	49	37	30	25	45	34	28	23	29	24	20	23	20	17	19	16	14	12
10	46	34	27	22	42	31	25	21	26	22	18	22	18	15	17	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7152	7152	7152
5°	7216	7161	7123
10°	7193	7143	7106
15°	7162	7117	7079
20°	7126	7080	7027
25°	7075	7028	6946
30°	6999	6949	6850
35°	6896	6836	6738
40°	6739	6666	6545
45°	6464	6351	6220
50°	5980	5836	5721
55°	5220	5101	4994
60°	4398	4362	4275
65°	3804	3819	3790
70°	3494	3512	3512
75°	3356	3356	3379
80°	3158	3193	3158
85°	2544	2826	2826



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.9	1.5
10°-20°	629.2	4.3
20°-30°	949.0	6.4
30°-40°	1130.7	7.6
40°-50°	1114.8	7.5
50°-60°	852.0	5.8
60°-70°	527.3	3.6
70°-80°	299.5	2.0
80°-90°	94.6	0.6
90°-100°	650.2	4.4
100°-110°	1789.0	12.1
110°-120°	1846.5	12.5
120°-130°	1479.4	10.0
130°-140°	1162.0	7.9
140°-150°	890.5	6.0
150°-160°	640.2	4.3
160°-170°	391.5	2.6
170°-180°	132.0	0.9
0°-30°	1798.1	12.2
0°-40°	2928.8	19.8
0°-60°	4895.6	33.1
0°-90°	5816.9	39.3
90°-120°	4285.7	29.0
90°-150°	7817.7	52.8
90°-180°	8981.0	60.7
0°-180°	14798.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2326	2326	2326	2326	2326	
5°	2338	2312	2320	2311	2307	222
15°	2249	2226	2235	2227	2223	635
25°	2085	2060	2071	2049	2047	960
35°	1837	1815	1821	1797	1795	1146
45°	1486	1467	1460	1434	1430	1139
55°	974	958	951	935	931	872
65°	523	519	525	521	521	530
75°	282	282	282	284	284	298
85°	72	76	80	80	80	84
90°	3	12	20	26	26	9
95°	97	355	1150	492	314	102
105°	320	492	1971	3002	2801	337
115°	566	690	1581	3148	3573	559
125°	780	889	1434	2426	2842	696
135°	942	1045	1393	1962	2220	727
145°	1088	1163	1373	1672	1801	682
155°	1232	1272	1364	1503	1546	566
165°	1332	1349	1370	1426	1434	375
175°	1379	1382	1373	1390	1387	131
180°	1379	1379	1379	1379	1379	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2325.5	2325.5	2325.5	2325.5	2325.5
2.5°	2339.9	2319.5	2325.5	2320.4	2309.5
5°	2337.5	2312.0	2319.5	2311.4	2307.4
7.5°	2319.5	2294.4	2301.8	2293.8	2291.4
10°	2303.4	2279.9	2287.4	2279.3	2275.4
12.5°	2285.8	2260.7	2269.8	2260.1	2256.2
15°	2249.4	2225.9	2235.3	2227.2	2223.3
17.5°	2209.3	2184.2	2193.7	2184.3	2179.3
20°	2177.3	2153.8	2163.2	2149.2	2147.2
22.5°	2142.0	2118.5	2128.0	2109.1	2108.8
25°	2085.1	2059.7	2071.1	2049.0	2047.1
27.5°	2017.4	1993.9	2003.4	1980.9	1978.6
30°	1970.9	1947.4	1956.9	1932.8	1928.9
32.5°	1918.1	1896.1	1904.0	1880.0	1877.6
35°	1836.7	1815.2	1820.7	1796.6	1794.7
37.5°	1744.2	1724.6	1727.8	1701.3	1699.3
40°	1678.5	1658.9	1660.5	1632.4	1630.4
42.5°	1606.4	1586.8	1585.2	1557.1	1555.1
45°	1486.2	1466.6	1460.2	1434.1	1430.1
47.5°	1349.2	1329.6	1317.6	1296.3	1293.5
50°	1249.9	1230.3	1219.8	1201.7	1195.8
52.5°	1142.5	1122.9	1114.1	1097.5	1091.6
55°	973.5	957.8	951.4	935.3	931.4
57.5°	812.8	802.2	800.4	784.7	783.2
60°	715.1	709.2	709.1	695.0	695.0
62.5°	631.7	627.4	630.5	621.3	619.7
65°	522.8	518.9	524.8	520.8	520.8
67.5°	436.7	436.7	440.3	438.7	438.7
70°	388.6	388.6	390.6	390.6	390.6
72.5°	345.3	343.7	348.9	348.9	347.3
75°	282.4	282.4	282.4	284.4	284.4
77.5°	219.9	220.3	221.9	221.5	219.9
80°	178.3	180.2	180.3	178.3	178.3
82.5°	136.6	138.6	138.6	138.2	136.6
85°	72.1	76.0	80.1	80.1	80.1
87.5°	21.4	29.4	36.2	37.3	35.7
90°	2.9	11.5	20.5	26.4	26.4
92.5°	40.5	173.0	299.8	115.1	94.5
95°	96.8	354.9	1149.9	491.7	313.9
97.5°	157.8	393.6	1754.7	1352.0	953.9
100°	202.4	417.5	1944.8	1963.0	1601.6
102.5°	244.6	446.0	1994.1	2435.3	2103.8
105°	319.7	491.8	1971.2	3002.1	2801.3
107.5°	391.3	548.5	1859.1	3279.6	3339.3
110°	442.9	586.3	1774.6	3348.7	3555.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	489.9	628.7	1690.2	3304.2	3618.5
115°	566.1	689.5	1581.0	3148.3	3572.8
117.5°	638.9	752.4	1511.8	2929.5	3409.7
120°	683.5	792.4	1481.3	2765.6	3261.8
122.5°	723.4	832.3	1460.2	2621.9	3092.9
125°	780.3	889.2	1434.4	2426.5	2842.4
127.5°	834.2	938.1	1417.4	2263.4	2628.2
130°	862.4	968.5	1408.0	2166.5	2499.2
132.5°	895.2	1001.4	1400.9	2081.3	2381.8
135°	941.6	1044.8	1393.3	1962.4	2220.5
137.5°	985.0	1080.8	1386.9	1866.3	2079.1
140°	1017.9	1106.8	1384.5	1802.5	1994.6
142.5°	1046.0	1128.0	1379.8	1745.5	1910.2
145°	1088.3	1162.8	1372.8	1672.0	1801.0
147.5°	1133.4	1197.7	1369.3	1606.9	1710.1
150°	1161.6	1218.9	1366.9	1571.1	1651.4
152.5°	1187.4	1240.2	1364.6	1540.3	1606.9
155°	1232.0	1272.1	1364.0	1502.8	1545.8
157.5°	1264.3	1296.9	1364.0	1472.0	1501.8
160°	1287.7	1313.5	1364.0	1455.4	1478.4
162.5°	1306.5	1327.7	1366.3	1441.3	1459.6
165°	1331.7	1348.9	1369.8	1425.8	1434.4
167.5°	1349.3	1362.5	1372.8	1412.7	1415.0
170°	1361.0	1369.7	1372.8	1408.0	1408.0
172.5°	1370.4	1374.5	1372.8	1400.9	1398.6
175°	1378.6	1381.5	1372.8	1390.3	1387.4
177.5°	1381.0	1381.0	1371.6	1385.6	1381.0
180°	1378.6	1378.6	1378.6	1378.6	1378.6

(END OF REPORT)