

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: P563369

Luminaire Tested: **SQ4-PP3-075U-050D-830-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563369
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PP3-075U-050D-830-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

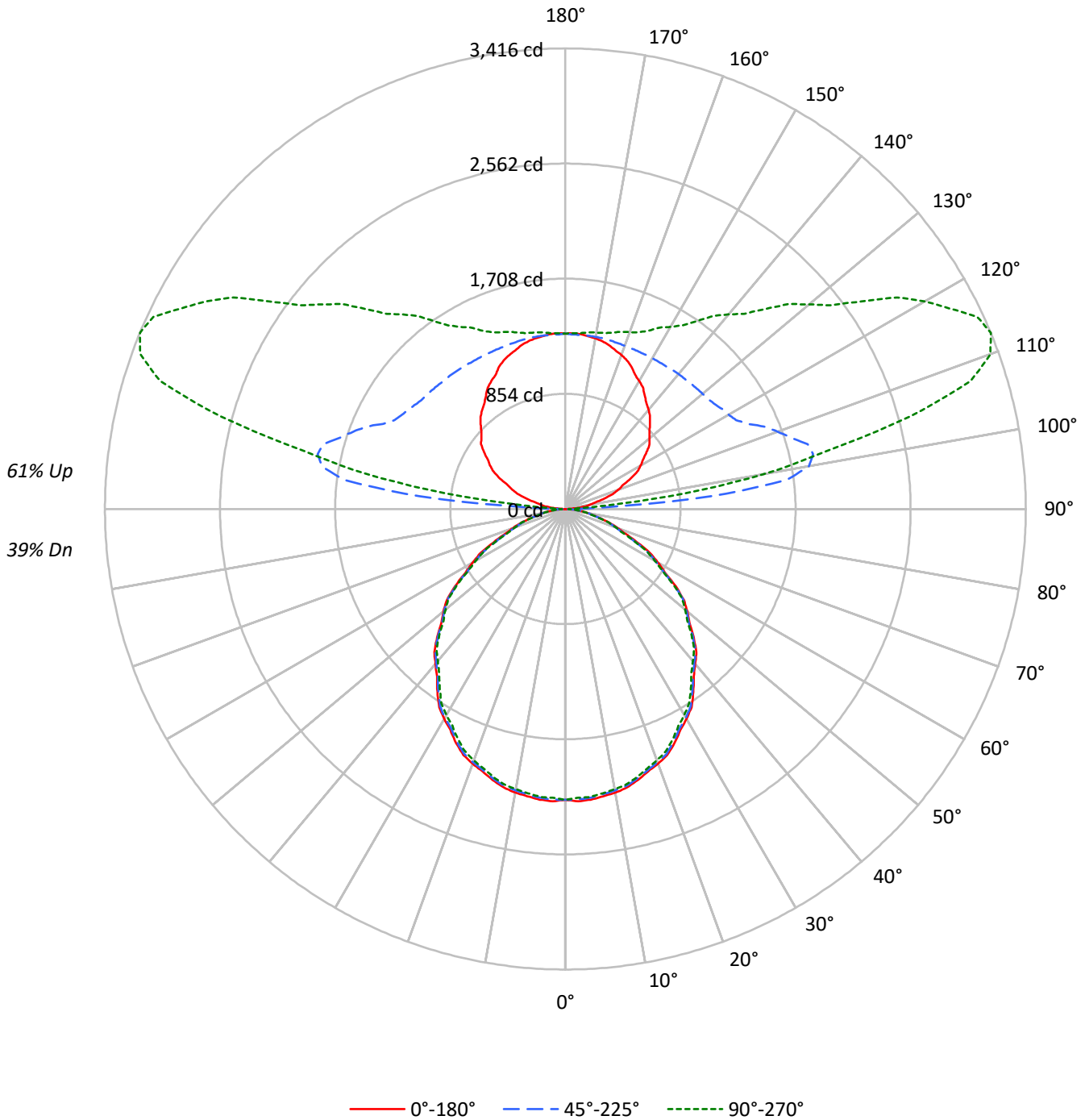
Lumens per Lamp: N/A
Luminaire Lumens: 14000.6 lumens
Efficiency: N/A
Efficacy: 130.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 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	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	40	34				
2	87	80	74	69	79	73	68	64	60	56	53	48	45	43	36	35	33	28				
3	80	70	63	58	72	64	58	53	53	48	45	42	39	37	32	30	29	24				
4	73	62	55	49	66	57	50	45	47	42	38	38	34	31	29	27	25	21				
5	67	55	47	42	60	51	44	39	42	37	33	34	30	27	26	24	22	18				
6	61	50	42	36	56	46	39	34	38	33	29	30	27	24	24	21	19	16				
7	57	45	37	32	51	41	34	29	34	29	25	28	24	21	22	19	17	14				
8	53	41	33	28	48	37	31	26	31	26	22	25	21	19	20	17	15	13				
9	49	37	30	25	44	34	28	23	28	23	20	23	19	17	18	16	14	11				
10	46	34	27	22	42	31	25	21	26	21	18	21	18	15	17	14	12	10				

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	1.5
10°-20°	582.3	4.2
20°-30°	872.2	6.2
30°-40°	1023.1	7.3
40°-50°	1026.2	7.3
50°-60°	875.5	6.3
60°-70°	570.9	4.1
70°-80°	286.5	2.0
80°-90°	82.6	0.6
90°-100°	613.7	4.4
100°-110°	1688.6	12.1
110°-120°	1742.9	12.4
120°-130°	1396.4	10.0
130°-140°	1096.8	7.8
140°-150°	840.5	6.0
150°-160°	604.3	4.3
160°-170°	369.5	2.6
170°-180°	124.6	0.9
0°-30°	1658.4	11.8
0°-40°	2681.5	19.2
0°-60°	4583.2	32.7
0°-90°	5523.2	39.4
90°-120°	4045.3	28.9
90°-150°	7379.0	52.7
90°-180°	8477.0	60.5
0°-180°	14000.6	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°	3	11	19	25	25	8
95°	91	335	1085	464	296	97
105°	302	464	1861	2834	2644	318
115°	534	651	1492	2972	3372	527
125°	736	839	1354	2290	2683	657
135°	889	986	1315	1852	2096	686
145°	1027	1098	1296	1578	1700	644
155°	1163	1201	1288	1418	1459	534
165°	1257	1273	1293	1346	1354	354
175°	1301	1304	1296	1312	1310	124
180°	1301	1301	1301	1301	1301	

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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°	17.2	24.7	28.1	29.2	30.7
90°	2.8	10.9	19.4	24.9	24.9
92.5°	38.2	163.3	283.0	108.6	89.2
95°	91.4	335.0	1085.3	464.1	296.3
97.5°	149.0	371.5	1656.2	1276.1	900.4
100°	191.0	394.1	1835.7	1852.8	1511.7
102.5°	230.9	421.0	1882.2	2298.7	1985.7
105°	301.8	464.2	1860.6	2833.6	2644.1
107.5°	369.3	517.7	1754.8	3095.6	3151.9
110°	418.1	553.4	1675.1	3160.8	3355.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	462.4	593.4	1595.3	3118.8	3415.5
115°	534.4	650.8	1492.3	2971.6	3372.3
117.5°	603.0	710.2	1427.0	2765.2	3218.4
120°	645.1	748.0	1398.2	2610.5	3078.8
122.5°	682.8	785.6	1378.3	2474.8	2919.3
125°	736.5	839.4	1353.9	2290.3	2682.9
127.5°	787.4	885.4	1337.8	2136.4	2480.8
130°	814.0	914.2	1329.0	2044.9	2358.9
132.5°	845.0	945.2	1322.3	1964.5	2248.2
135°	888.8	986.2	1315.1	1852.3	2095.9
137.5°	929.7	1020.2	1309.0	1761.6	1962.5
140°	960.7	1044.7	1306.8	1701.3	1882.7
142.5°	987.3	1064.7	1302.4	1647.6	1803.0
145°	1027.2	1097.6	1295.8	1578.2	1700.0
147.5°	1069.8	1130.5	1292.4	1516.7	1614.2
150°	1096.4	1150.6	1290.2	1483.0	1558.8
152.5°	1120.8	1170.6	1288.0	1453.9	1516.7
155°	1162.9	1200.8	1287.5	1418.5	1459.1
157.5°	1193.3	1224.2	1287.5	1389.4	1417.6
160°	1215.5	1239.8	1287.5	1373.8	1395.4
162.5°	1233.2	1253.2	1289.7	1360.4	1377.7
165°	1257.0	1273.2	1293.0	1345.8	1353.9
167.5°	1273.6	1286.1	1295.8	1333.5	1335.6
170°	1284.7	1292.8	1295.8	1329.0	1329.0
172.5°	1293.5	1297.3	1295.8	1322.3	1320.1
175°	1301.3	1304.0	1295.8	1312.3	1309.6
177.5°	1303.5	1303.5	1294.7	1307.8	1303.5
180°	1301.3	1301.3	1301.3	1301.3	1301.3

(END OF REPORT)