

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: P564475

Luminaire Tested: **SQ4-PR1-150U-100D-830-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564475
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, 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-PR1-150U-100D-830-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

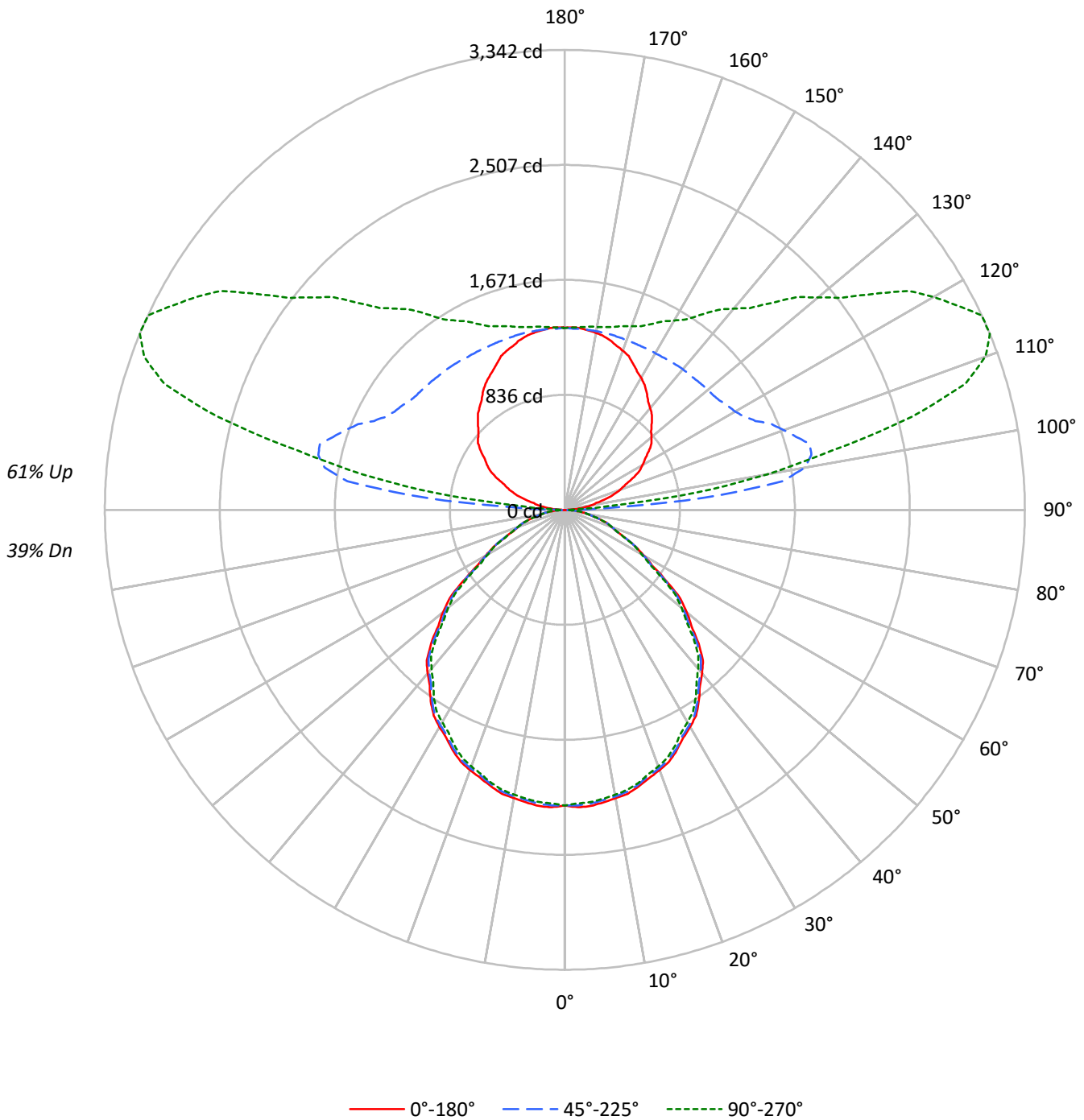
Lumens per Lamp: N/A
Luminaire Lumens: 13904.7 lumens
Efficiency: N/A
Efficacy: 123.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 112.7
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	104	104	104	104	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	95	91	88	84	87	83	80	77	68	66	64	54	52	51	41	40	39	33
2	87	80	74	69	79	73	68	64	60	56	53	47	45	43	36	35	33	28
3	80	70	63	58	72	64	58	53	53	48	45	42	39	36	32	30	28	24
4	73	62	55	49	66	57	50	45	47	42	38	38	34	31	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	34	30	34	29	25	28	24	21	22	19	17	14
8	53	41	33	28	48	37	31	26	31	26	22	25	22	19	20	17	15	13
9	49	37	30	25	45	34	28	23	29	24	20	23	20	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°	13220	13220	13220
5°	13339	13236	13167
10°	13296	13204	13135
15°	13238	13156	13085
20°	13172	13087	12990
25°	13079	12991	12840
30°	12938	12846	12661
35°	12747	12636	12455
40°	12456	12323	12099
45°	11948	11740	11498
50°	11054	10788	10576
55°	9648	9429	9231
60°	8130	8061	7903
65°	7033	7059	7005
70°	6458	6492	6492
75°	6203	6203	6248
80°	5837	5901	5837
85°	4700	5222	5222



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.2	1.5
10°-20°	581.5	4.2
20°-30°	877.1	6.3
30°-40°	1045.1	7.5
40°-50°	1030.3	7.4
50°-60°	787.4	5.7
60°-70°	487.3	3.5
70°-80°	276.8	2.0
80°-90°	86.9	0.6
90°-100°	614.8	4.4
100°-110°	1662.2	12.0
110°-120°	1747.6	12.6
120°-130°	1419.5	10.2
130°-140°	1113.5	8.0
140°-150°	854.6	6.1
150°-160°	614.6	4.4
160°-170°	375.5	2.7
170°-180°	126.6	0.9
0°-30°	1661.9	12.0
0°-40°	2706.9	19.5
0°-60°	4524.7	32.5
0°-90°	5375.7	38.7
90°-120°	4024.6	28.9
90°-150°	7412.3	53.3
90°-180°	8529.0	61.3
0°-180°	13904.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2149	2149	2149	2149	2149	
5°	2160	2137	2144	2136	2133	205
15°	2079	2057	2066	2058	2055	587
25°	1927	1904	1914	1894	1892	887
35°	1698	1678	1683	1660	1659	1059
45°	1374	1356	1350	1325	1322	1052
55°	900	885	879	864	861	806
65°	483	480	485	481	481	489
75°	261	261	261	263	263	276
85°	67	70	74	74	74	78
90°	3	8	18	20	18	9
95°	95	335	1022	529	315	100
105°	309	478	1844	2720	2609	325
115°	544	665	1529	2960	3342	537
125°	745	853	1378	2326	2733	664
135°	893	999	1341	1878	2126	690
145°	1038	1116	1323	1608	1730	649
155°	1172	1218	1312	1442	1490	541
165°	1276	1288	1317	1369	1376	359
175°	1324	1323	1319	1336	1333	126
180°	1323	1323	1323	1323	1323	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2149.3	2149.3	2149.3	2149.3	2149.3
2.5°	2162.6	2143.8	2149.3	2144.6	2134.5
5°	2160.4	2136.9	2143.7	2136.3	2132.6
7.5°	2143.7	2120.6	2127.4	2120.0	2117.8
10°	2128.9	2107.2	2114.1	2106.6	2103.0
12.5°	2112.6	2089.5	2097.8	2088.9	2085.2
15°	2078.9	2057.2	2066.0	2058.5	2054.9
17.5°	2041.9	2018.7	2027.5	2018.9	2014.2
20°	2012.3	1990.6	1999.3	1986.3	1984.5
22.5°	1979.7	1958.0	1966.8	1949.3	1949.0
25°	1927.1	1903.6	1914.2	1893.8	1892.0
27.5°	1864.6	1842.8	1851.6	1830.8	1828.7
30°	1821.6	1799.9	1808.7	1786.4	1782.7
32.5°	1772.7	1752.5	1759.8	1737.5	1735.4
35°	1697.6	1677.7	1682.8	1660.5	1658.7
37.5°	1612.1	1594.0	1596.9	1572.4	1570.6
40°	1551.3	1533.2	1534.7	1508.7	1506.9
42.5°	1484.7	1466.6	1465.1	1439.1	1437.3
45°	1373.6	1355.5	1349.6	1325.4	1321.8
47.5°	1247.0	1228.9	1217.7	1198.1	1195.5
50°	1155.2	1137.1	1127.4	1110.6	1105.2
52.5°	1055.9	1037.8	1029.7	1014.4	1008.9
55°	899.7	885.2	879.3	864.4	860.8
57.5°	751.2	741.5	739.8	725.3	723.8
60°	660.9	655.5	655.3	642.4	642.4
62.5°	583.9	579.9	582.8	574.2	572.8
65°	483.2	479.6	485.0	481.3	481.3
67.5°	403.6	403.6	406.9	405.4	405.4
70°	359.1	359.1	361.0	361.0	361.0
72.5°	319.2	317.7	322.5	322.5	321.0
75°	261.0	261.0	261.0	262.9	262.9
77.5°	203.3	203.6	205.1	204.7	203.3
80°	164.8	166.6	166.6	164.8	164.8
82.5°	126.3	128.1	128.1	127.7	126.3
85°	66.6	70.3	74.0	74.0	74.0
87.5°	19.8	26.7	33.3	33.6	31.8
90°	2.8	8.4	18.5	19.9	18.5
92.5°	40.4	147.4	290.8	126.2	91.4
95°	95.4	334.9	1022.4	529.1	314.7
97.5°	153.2	384.1	1593.7	1318.9	968.6
100°	196.5	404.0	1771.4	1847.4	1493.7
102.5°	236.4	431.6	1834.1	2248.1	1983.6
105°	309.0	477.5	1844.0	2720.1	2608.7
107.5°	376.2	529.9	1763.4	3014.5	3051.5
110°	428.6	567.8	1691.7	3093.6	3250.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	475.3	605.6	1625.6	3077.8	3342.0
115°	544.0	665.1	1529.3	2960.5	3342.0
117.5°	611.2	724.8	1465.8	2781.4	3213.9
120°	652.2	763.6	1428.2	2652.9	3094.3
122.5°	690.9	800.1	1405.4	2515.1	2959.8
125°	744.7	853.3	1378.4	2326.0	2732.6
127.5°	794.3	900.9	1362.4	2171.7	2529.2
130°	821.6	931.6	1355.6	2076.4	2399.4
132.5°	850.1	959.0	1348.8	1990.3	2287.7
135°	892.8	998.6	1341.4	1878.1	2126.0
137.5°	935.8	1035.8	1335.1	1787.1	1989.0
140°	965.4	1058.7	1332.8	1728.5	1908.1
142.5°	993.9	1081.6	1328.3	1675.6	1832.9
145°	1038.1	1116.0	1322.9	1607.6	1730.1
147.5°	1078.2	1147.3	1316.6	1546.0	1640.1
150°	1107.8	1169.1	1314.3	1512.5	1587.7
152.5°	1135.2	1188.6	1313.2	1481.5	1543.3
155°	1171.9	1217.9	1311.5	1442.1	1489.5
157.5°	1210.1	1242.1	1311.7	1414.7	1445.9
160°	1231.7	1258.2	1312.9	1397.4	1419.7
162.5°	1248.8	1270.8	1314.0	1383.6	1400.3
165°	1275.9	1288.4	1317.2	1368.6	1375.5
167.5°	1294.4	1303.0	1317.4	1355.7	1359.0
170°	1305.8	1309.9	1318.6	1349.9	1349.9
172.5°	1314.9	1315.7	1318.6	1343.1	1341.9
175°	1324.3	1322.9	1318.6	1335.6	1332.8
177.5°	1327.4	1324.1	1318.3	1329.6	1326.3
180°	1322.9	1322.9	1322.9	1322.9	1322.9

(END OF REPORT)