

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: P563084

Luminaire Tested: **SQ4-PC3-150U-050D-830-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563084
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-150U-050D-830-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

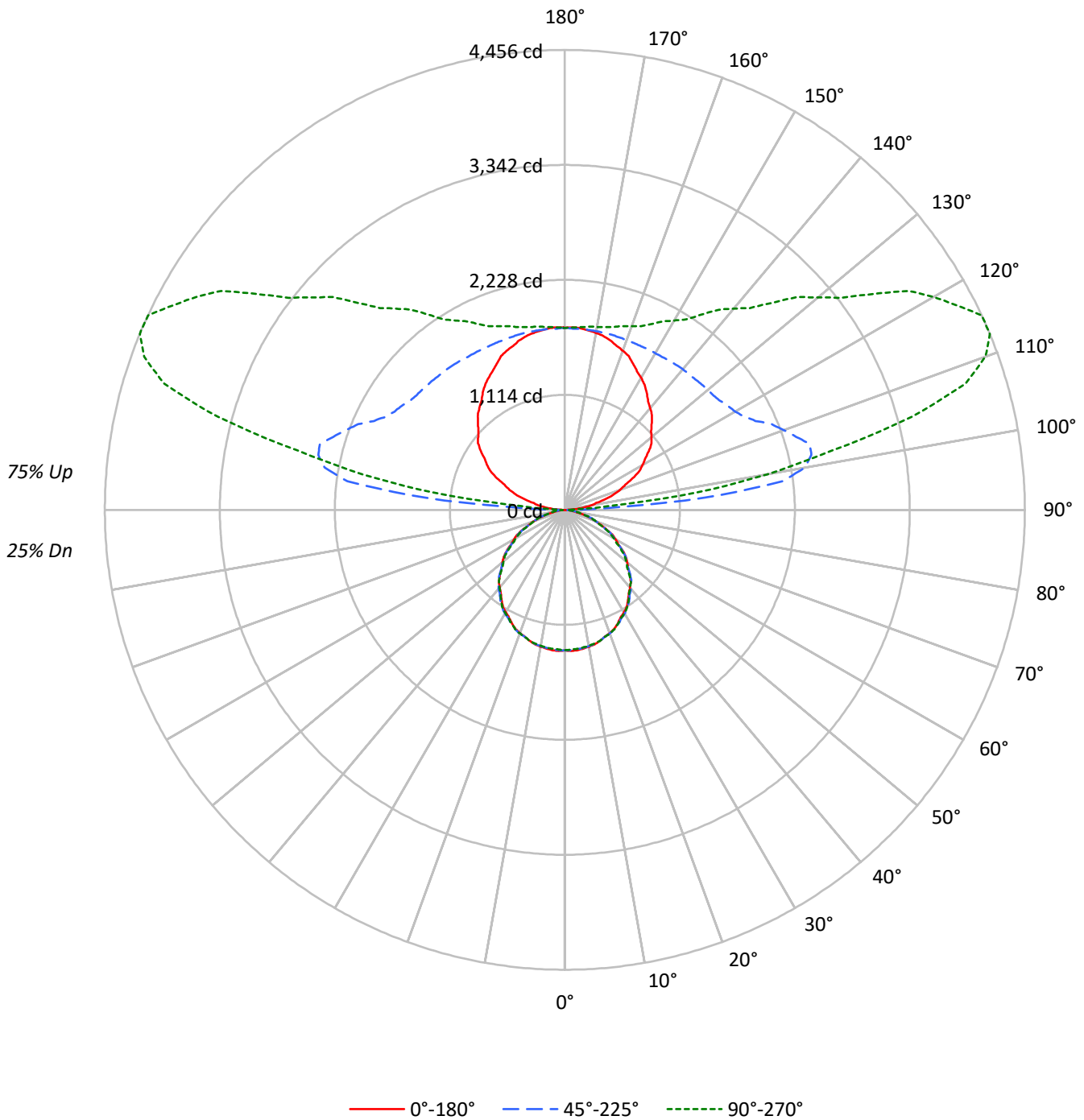
Lumens per Lamp: N/A
Luminaire Lumens: 15090.7 lumens
Efficiency: N/A
Efficacy: 134.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 111.9
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	101	101	101	101	90	90	90	90	69	69	69	50	50	50	33	33	33	25				
1	92	88	84	81	82	78	75	73	61	59	57	44	43	42	29	28	28	21				
2	84	77	71	66	74	69	64	59	53	50	47	39	37	35	26	24	23	17				
3	76	67	60	55	68	60	54	50	47	43	39	34	32	29	23	21	20	15				
4	70	59	52	46	62	53	47	42	41	37	33	30	27	25	20	18	17	13				
5	64	53	45	39	57	47	41	36	37	32	29	27	24	22	18	16	15	11				
6	59	47	39	34	52	42	36	31	33	28	25	24	21	19	16	14	13	10				
7	54	42	35	29	48	38	31	27	30	25	22	22	19	16	15	13	11	8				
8	50	38	31	26	44	34	28	24	27	22	19	20	17	15	14	12	10	8				
9	47	35	28	23	41	31	25	21	25	20	17	18	15	13	13	11	9	7				
10	43	32	25	20	39	29	23	19	23	18	15	17	14	12	12	10	8	6				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6279	6279	6279
5°	6327	6286	6263
10°	6312	6282	6264
15°	6278	6278	6272
20°	6237	6256	6256
25°	6178	6223	6204
30°	6103	6177	6150
35°	6012	6105	6062
40°	5913	5996	5935
45°	5805	5847	5756
50°	5654	5654	5563
55°	5474	5403	5322
60°	5210	5105	5024
65°	4815	4719	4677
70°	4216	4250	4232
75°	3392	3752	3773
80°	2410	3180	3214
85°	1466	2668	2668



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.8	0.9
10°-20°	369.7	2.4
20°-30°	559.9	3.7
30°-40°	671.2	4.4
40°-50°	684.4	4.5
50°-60°	597.4	4.0
60°-70°	427.7	2.8
70°-80°	220.3	1.5
80°-90°	59.4	0.4
90°-100°	819.7	5.4
100°-110°	2216.3	14.7
110°-120°	2330.1	15.4
120°-130°	1892.7	12.5
130°-140°	1484.7	9.8
140°-150°	1139.5	7.6
150°-160°	819.5	5.4
160°-170°	500.6	3.3
170°-180°	168.8	1.1
0°-30°	1058.4	7.0
0°-40°	1729.6	11.5
0°-60°	3011.4	20.0
0°-90°	3718.7	24.6
90°-120°	5366.2	35.6
90°-150°	9883.0	65.5
90°-180°	11372.0	75.4
0°-180°	15090.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1361	1361	1361	1361	1361	
5°	1366	1353	1358	1354	1352	130
15°	1315	1304	1315	1315	1313	371
25°	1214	1205	1223	1219	1219	559
35°	1068	1065	1084	1076	1076	668
45°	890	887	896	885	882	685
55°	681	672	672	662	662	607
65°	441	431	432	428	428	436
75°	190	199	210	212	212	206
85°	28	42	50	52	50	38
90°	4	11	25	26	25	10
95°	127	446	1363	706	420	133
105°	412	637	2459	3627	3478	434
115°	725	887	2039	3947	4456	716
125°	993	1138	1838	3101	3643	885
135°	1190	1332	1788	2504	2835	920
145°	1384	1488	1764	2143	2307	866
155°	1563	1624	1749	1923	1986	721
165°	1701	1718	1756	1825	1834	479
175°	1766	1764	1758	1781	1777	168
180°	1764	1764	1764	1764	1764	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1361.2	1361.2	1361.2	1361.2	1361.2
2.5°	1369.3	1357.5	1361.2	1358.1	1353.2
5°	1366.3	1352.7	1357.5	1353.7	1352.4
7.5°	1356.5	1342.9	1349.1	1346.6	1345.4
10°	1347.4	1333.8	1341.1	1338.5	1337.3
12.5°	1335.3	1322.7	1331.0	1328.5	1328.2
15°	1314.6	1303.5	1314.6	1314.6	1313.3
17.5°	1288.6	1278.5	1290.4	1291.1	1290.4
20°	1270.5	1259.4	1274.3	1273.0	1274.3
22.5°	1248.3	1239.2	1255.1	1251.9	1253.1
25°	1213.8	1205.1	1222.6	1218.8	1218.8
27.5°	1172.9	1166.8	1185.8	1181.8	1181.8
30°	1145.7	1139.6	1159.6	1154.5	1154.5
32.5°	1115.5	1111.3	1130.3	1124.3	1124.3
35°	1067.6	1065.1	1084.0	1076.4	1076.4
37.5°	1018.2	1015.9	1033.0	1023.9	1020.9
40°	981.9	980.6	995.7	985.6	985.6
42.5°	945.6	944.3	957.4	945.3	945.3
45°	889.8	887.4	896.2	884.8	882.3
47.5°	829.1	826.6	832.1	819.7	818.5
50°	787.8	785.3	787.8	776.4	775.2
52.5°	745.4	741.0	741.4	730.0	729.8
55°	680.6	672.0	671.8	661.7	661.7
57.5°	612.1	600.7	601.7	593.1	591.9
60°	564.7	552.3	553.3	545.7	544.5
62.5°	518.3	504.0	506.9	498.4	498.1
65°	441.1	431.3	432.3	428.5	428.5
67.5°	367.0	357.9	364.5	361.5	361.2
70°	312.6	306.4	315.1	315.1	313.8
72.5°	262.2	261.9	272.8	272.8	273.5
75°	190.3	198.9	210.5	211.7	211.7
77.5°	127.0	142.3	155.0	155.5	155.3
80°	90.7	108.0	119.7	122.2	121.0
82.5°	61.5	79.7	89.5	92.0	90.7
85°	27.7	42.5	50.4	51.6	50.4
87.5°	8.8	19.2	25.1	25.4	23.1
90°	3.8	11.2	24.7	26.5	24.7
92.5°	53.9	196.5	387.7	168.3	121.9
95°	127.2	446.5	1363.2	705.5	419.6
97.5°	204.3	512.1	2124.9	1758.5	1291.4
100°	262.0	538.6	2361.9	2463.2	1991.6
102.5°	315.2	575.4	2445.4	2997.5	2644.8
105°	412.0	636.6	2458.7	3626.8	3478.3
107.5°	501.6	706.6	2351.2	4019.3	4068.7
110°	571.5	757.1	2255.5	4124.7	4334.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	633.8	807.5	2167.5	4103.7	4456.0
115°	725.3	886.8	2039.1	3947.4	4456.0
117.5°	814.9	966.4	1954.4	3708.6	4285.2
120°	869.6	1018.1	1904.3	3537.2	4125.7
122.5°	921.2	1066.7	1873.9	3353.5	3946.4
125°	993.0	1137.8	1837.9	3101.4	3643.4
127.5°	1059.0	1201.2	1816.6	2895.6	3372.3
130°	1095.5	1242.2	1807.5	2768.5	3199.2
132.5°	1133.5	1278.6	1798.4	2653.8	3050.3
135°	1190.4	1331.5	1788.5	2504.2	2834.6
137.5°	1247.8	1381.1	1780.1	2382.8	2652.0
140°	1287.3	1411.6	1777.1	2304.7	2544.1
142.5°	1325.2	1442.2	1771.0	2234.1	2443.9
145°	1384.1	1488.0	1763.8	2143.4	2306.8
147.5°	1437.6	1529.7	1755.5	2061.3	2186.8
150°	1477.1	1558.8	1752.4	2016.7	2116.9
152.5°	1513.6	1584.9	1750.9	1975.3	2057.7
155°	1562.6	1623.8	1748.6	1922.8	1985.9
157.5°	1613.4	1656.1	1749.0	1886.3	1927.8
160°	1642.3	1677.6	1750.5	1863.2	1892.9
162.5°	1665.1	1694.4	1752.0	1844.8	1867.1
165°	1701.2	1717.9	1756.2	1824.8	1834.1
167.5°	1725.8	1737.3	1756.6	1807.6	1812.0
170°	1741.0	1746.6	1758.1	1799.9	1799.9
172.5°	1753.2	1754.3	1758.1	1790.7	1789.2
175°	1765.7	1763.9	1758.1	1780.8	1777.1
177.5°	1769.9	1765.4	1757.7	1772.8	1768.4
180°	1763.8	1763.8	1763.8	1763.8	1763.8

(END OF REPORT)