

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: P563100

Luminaire Tested: **SQ4-PC3-150U-050D-935-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563100
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-935-1D-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: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

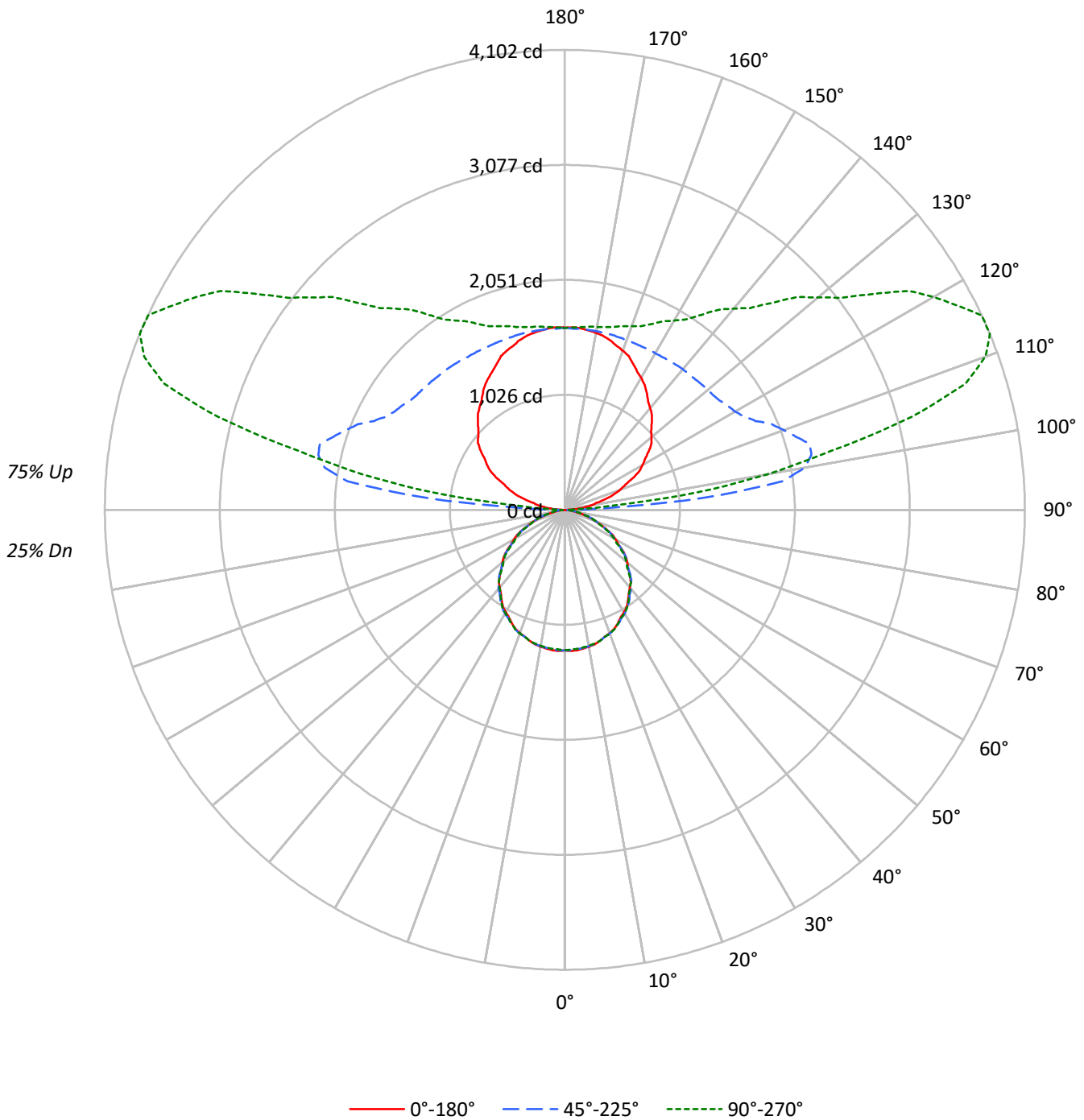
Lumens per Lamp: N/A
Luminaire Lumens: 13891.6 lumens
Efficiency: N/A
Efficacy: 124.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

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°	5781	5781	5781
5°	5824	5787	5765
10°	5810	5783	5766
15°	5780	5780	5774
20°	5741	5758	5758
25°	5687	5729	5711
30°	5618	5686	5661
35°	5534	5619	5580
40°	5443	5520	5464
45°	5344	5382	5299
50°	5205	5205	5121
55°	5039	4974	4899
60°	4796	4700	4624
65°	4433	4344	4306
70°	3880	3913	3897
75°	3123	3454	3474
80°	2218	2928	2959
85°	1350	2456	2456



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.6	0.9
10°-20°	340.3	2.4
20°-30°	515.4	3.7
30°-40°	617.9	4.4
40°-50°	630.0	4.5
50°-60°	550.0	4.0
60°-70°	393.7	2.8
70°-80°	202.8	1.5
80°-90°	54.7	0.4
90°-100°	754.6	5.4
100°-110°	2040.2	14.7
110°-120°	2145.0	15.4
120°-130°	1742.3	12.5
130°-140°	1366.7	9.8
140°-150°	1049.0	7.6
150°-160°	754.4	5.4
160°-170°	460.8	3.3
170°-180°	155.4	1.1
0°-30°	974.3	7.0
0°-40°	1592.1	11.5
0°-60°	2772.1	20.0
0°-90°	3423.3	24.6
90°-120°	4939.8	35.6
90°-150°	9097.7	65.5
90°-180°	10468.0	75.4
0°-180°	13891.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1253	1253	1253	1253	1253	
5°	1258	1245	1250	1246	1245	119
15°	1210	1200	1210	1210	1209	341
25°	1117	1109	1126	1122	1122	514
35°	983	980	998	991	991	615
45°	819	817	825	814	812	631
55°	626	619	618	609	609	559
65°	406	397	398	394	394	402
75°	175	183	194	195	195	189
85°	26	39	46	48	46	35
90°	4	10	23	24	23	9
95°	117	411	1255	649	386	123
105°	379	586	2263	3339	3202	399
115°	668	816	1877	3634	4102	659
125°	914	1047	1692	2855	3354	815
135°	1096	1226	1646	2305	2609	847
145°	1274	1370	1624	1973	2124	797
155°	1438	1495	1610	1770	1828	663
165°	1566	1581	1617	1680	1688	441
175°	1625	1624	1618	1639	1636	154
180°	1624	1624	1624	1624	1624	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1253.1	1253.1	1253.1	1253.1	1253.1
2.5°	1260.5	1249.6	1253.1	1250.2	1245.7
5°	1257.7	1245.2	1249.6	1246.1	1245.0
7.5°	1248.7	1236.2	1241.9	1239.6	1238.5
10°	1240.3	1227.8	1234.5	1232.2	1231.0
12.5°	1229.2	1217.6	1225.2	1222.9	1222.7
15°	1210.2	1199.9	1210.2	1210.1	1209.0
17.5°	1186.2	1176.9	1187.9	1188.6	1187.9
20°	1169.5	1159.3	1173.0	1171.9	1173.0
22.5°	1149.1	1140.7	1155.4	1152.4	1153.5
25°	1117.3	1109.4	1125.5	1122.0	1122.0
27.5°	1079.7	1074.1	1091.6	1087.9	1087.9
30°	1054.7	1049.0	1067.4	1062.8	1062.8
32.5°	1026.8	1023.0	1040.5	1035.0	1035.0
35°	982.7	980.5	997.8	990.9	990.9
37.5°	937.3	935.2	950.9	942.5	939.8
40°	903.8	902.7	916.6	907.3	907.3
42.5°	870.4	869.3	881.3	870.2	870.2
45°	819.1	816.9	824.9	814.5	812.2
47.5°	763.2	761.0	766.0	754.6	753.5
50°	725.2	722.9	725.2	714.7	713.6
52.5°	686.2	682.1	682.5	672.0	671.8
55°	626.5	618.6	618.4	609.1	609.1
57.5°	563.4	553.0	553.9	546.0	544.9
60°	519.8	508.5	509.4	502.4	501.2
62.5°	477.1	463.9	466.7	458.8	458.5
65°	406.1	397.0	398.0	394.5	394.5
67.5°	337.9	329.5	335.5	332.8	332.5
70°	287.7	282.1	290.1	290.0	288.9
72.5°	241.3	241.1	251.1	251.1	251.8
75°	175.2	183.1	193.8	194.9	194.9
77.5°	117.0	131.0	142.7	143.2	142.9
80°	83.5	99.4	110.2	112.5	111.4
82.5°	56.6	73.4	82.4	84.7	83.5
85°	25.5	39.1	46.4	47.5	46.4
87.5°	8.1	17.7	23.1	23.4	21.3
90°	3.5	10.3	22.7	24.4	22.7
92.5°	49.6	180.9	356.9	154.9	112.2
95°	117.1	411.0	1254.9	649.4	386.3
97.5°	188.1	471.4	1956.1	1618.8	1188.8
100°	241.2	495.8	2174.2	2267.5	1833.4
102.5°	290.1	529.7	2251.1	2759.3	2434.6
105°	379.3	586.0	2263.3	3338.6	3201.9
107.5°	461.8	650.4	2164.4	3700.0	3745.4
110°	526.1	697.0	2076.3	3797.0	3990.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	583.4	743.4	1995.2	3777.6	4102.0
115°	667.6	816.3	1877.1	3633.7	4102.0
117.5°	750.1	889.6	1799.1	3413.9	3944.7
120°	800.5	937.2	1753.0	3256.1	3797.9
122.5°	848.0	982.0	1725.0	3087.0	3632.9
125°	914.1	1047.4	1691.8	2854.9	3353.9
127.5°	974.9	1105.8	1672.2	2665.5	3104.4
130°	1008.5	1143.5	1663.9	2548.5	2945.0
132.5°	1043.4	1177.0	1655.5	2442.9	2807.9
135°	1095.8	1225.7	1646.4	2305.2	2609.4
137.5°	1148.6	1271.3	1638.7	2193.5	2441.3
140°	1185.0	1299.5	1635.9	2121.5	2342.0
142.5°	1219.9	1327.6	1630.3	2056.6	2249.7
145°	1274.1	1369.8	1623.7	1973.1	2123.5
147.5°	1323.4	1408.2	1616.0	1897.5	2013.1
150°	1359.7	1434.9	1613.2	1856.5	1948.7
152.5°	1393.3	1458.9	1611.8	1818.3	1894.2
155°	1438.4	1494.8	1609.7	1770.0	1828.1
157.5°	1485.2	1524.5	1610.0	1736.4	1774.7
160°	1511.8	1544.3	1611.4	1715.2	1742.5
162.5°	1532.8	1559.8	1612.8	1698.2	1718.7
165°	1566.0	1581.4	1616.7	1679.8	1688.3
167.5°	1588.7	1599.3	1617.0	1664.0	1668.1
170°	1602.7	1607.8	1618.4	1656.9	1656.9
172.5°	1613.9	1614.9	1618.4	1648.4	1647.1
175°	1625.4	1623.7	1618.4	1639.3	1635.9
177.5°	1629.3	1625.2	1618.1	1632.0	1627.9
180°	1623.7	1623.7	1623.7	1623.7	1623.7

(END OF REPORT)