

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: P563719

Luminaire Tested: **SQ4-PP3-125U-100D-930-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563719
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-PP3-125U-100D-930-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

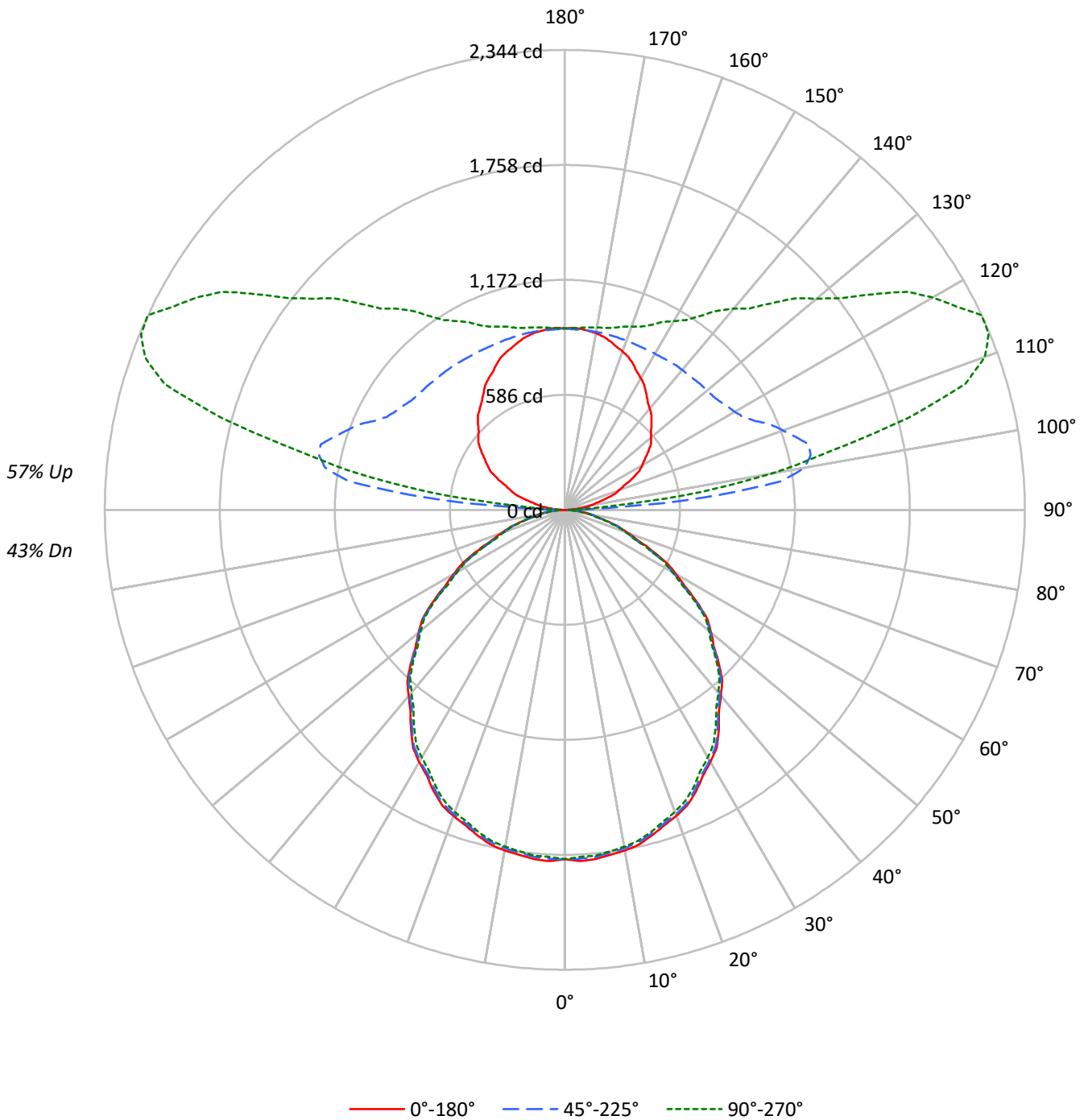
Lumens per Lamp: N/A
Luminaire Lumens: 10526.2 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 102.8
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	106	106	106	106	97	97	97	97	80	80	80	64	64	64	50	50	50	43
1	96	92	88	85	88	85	81	78	70	68	66	57	55	54	44	43	43	37
2	88	81	75	70	80	74	69	65	62	58	55	50	47	45	39	38	36	31
3	80	71	64	58	73	65	59	54	54	50	46	44	41	38	35	33	31	26
4	73	63	55	49	67	58	51	46	48	43	39	39	36	33	31	29	27	23
5	67	56	48	42	61	52	45	39	43	38	34	35	32	28	28	25	23	20
6	62	50	42	37	57	46	39	34	39	34	30	32	28	25	26	23	20	17
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	23	20	18	15
8	53	41	33	28	49	38	31	26	32	27	23	27	23	20	21	18	16	14
9	49	37	30	25	45	35	28	24	29	24	21	24	20	18	20	17	15	12
10	46	34	27	22	42	32	25	21	27	22	18	23	19	16	18	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10950	10950	10950
5°	11031	10964	10925
10°	11012	10934	10886
15°	10939	10880	10820
20°	10867	10805	10724
25°	10738	10664	10558
30°	10539	10484	10351
35°	10264	10193	10064
40°	9935	9872	9760
45°	9664	9596	9501
50°	9316	9257	9167
55°	8835	8717	8651
60°	8043	7813	7773
65°	7085	6789	6768
70°	6118	5864	5864
75°	5266	5190	5117
80°	4644	4697	4587
85°	3634	3966	3966



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.3	1.6
10°-20°	480.7	4.6
20°-30°	720.0	6.8
30°-40°	844.5	8.0
40°-50°	847.2	8.0
50°-60°	722.7	6.9
60°-70°	471.3	4.5
70°-80°	236.5	2.2
80°-90°	67.6	0.6
90°-100°	432.4	4.1
100°-110°	1164.8	11.1
110°-120°	1222.5	11.6
120°-130°	992.0	9.4
130°-140°	778.0	7.4
140°-150°	597.3	5.7
150°-160°	429.5	4.1
160°-170°	262.4	2.5
170°-180°	88.5	0.8
0°-30°	1369.1	13.0
0°-40°	2213.6	21.0
0°-60°	3783.5	35.9
0°-90°	4558.9	43.3
90°-120°	2819.7	26.8
90°-150°	5187.0	49.3
90°-180°	5967.0	56.7
0°-180°	10526.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1780	1780	1780	1780	1780	
5°	1787	1770	1776	1769	1769	170
15°	1718	1701	1709	1702	1699	485
25°	1582	1564	1571	1557	1556	728
35°	1367	1353	1358	1342	1340	854
45°	1111	1103	1103	1092	1092	855
55°	824	821	813	808	807	732
65°	487	478	466	464	465	486
75°	222	222	218	217	215	240
85°	52	56	56	56	56	61
90°	2	7	14	15	15	7
95°	66	235	709	362	251	69
105°	216	335	1288	1927	1809	227
115°	380	466	1073	2073	2344	374
125°	519	596	963	1628	1916	464
135°	625	698	936	1313	1487	483
145°	723	779	924	1123	1206	453
155°	821	851	916	1008	1040	378
165°	890	901	920	956	961	251
175°	926	924	921	934	931	88
180°	924	924	924	924	924	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1780.3	1780.3	1780.3	1780.3	1780.3
2.5°	1791.6	1776.9	1780.3	1777.7	1770.4
5°	1786.6	1769.8	1775.7	1769.4	1769.4
7.5°	1774.4	1756.1	1761.9	1755.7	1755.4
10°	1763.2	1744.9	1750.7	1744.4	1742.9
12.5°	1747.0	1728.6	1735.7	1728.2	1727.9
15°	1717.9	1701.1	1708.6	1702.3	1699.2
17.5°	1685.2	1666.9	1675.8	1667.0	1665.8
20°	1660.2	1641.9	1650.8	1638.4	1638.4
22.5°	1630.2	1611.9	1622.1	1605.9	1605.9
25°	1582.2	1563.9	1571.3	1557.2	1555.7
27.5°	1525.1	1507.1	1514.8	1498.9	1498.5
30°	1483.9	1467.1	1476.1	1458.9	1457.4
32.5°	1438.9	1423.4	1429.9	1412.7	1411.2
35°	1366.9	1353.1	1357.5	1341.9	1340.3
37.5°	1291.0	1277.0	1282.0	1268.5	1267.9
40°	1237.3	1228.2	1229.5	1218.6	1215.5
42.5°	1187.4	1177.0	1178.4	1167.4	1166.8
45°	1111.0	1103.3	1103.2	1092.2	1092.2
47.5°	1029.8	1024.0	1022.3	1013.3	1013.0
50°	973.6	969.1	967.4	959.6	958.0
52.5°	915.0	912.8	907.5	900.9	900.6
55°	823.9	820.8	812.9	808.2	806.7
57.5°	724.9	718.8	710.0	703.1	704.3
60°	653.8	647.7	635.1	631.9	631.9
62.5°	585.1	577.8	565.2	560.8	563.3
65°	486.8	477.7	466.5	463.5	465.0
67.5°	397.6	389.3	377.3	377.3	376.0
70°	340.2	335.6	326.1	326.1	326.1
72.5°	289.0	286.8	279.9	279.9	278.7
75°	221.6	221.6	218.4	216.9	215.3
77.5°	166.0	166.6	165.1	163.5	160.7
80°	131.1	134.1	132.6	131.0	129.5
82.5°	98.6	101.7	101.4	98.6	98.3
85°	51.5	56.1	56.2	56.2	56.2
87.5°	14.2	20.0	22.8	23.1	24.3
90°	2.4	7.0	14.1	15.3	15.3
92.5°	28.7	101.5	200.7	96.6	67.1
95°	65.9	235.2	708.9	362.5	250.8
97.5°	105.3	269.2	1111.8	928.8	700.4
100°	135.4	282.8	1240.0	1297.3	1076.3
102.5°	164.6	301.9	1282.3	1573.3	1391.9
105°	215.5	335.2	1288.2	1927.3	1808.7
107.5°	263.5	370.4	1233.4	2109.2	2139.8
110°	295.6	396.9	1183.4	2165.7	2277.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	329.5	423.4	1135.4	2153.2	2336.7
115°	380.3	465.5	1072.7	2072.8	2344.5
117.5°	426.7	506.6	1024.2	1944.4	2247.0
120°	456.9	534.0	999.7	1852.3	2163.1
122.5°	483.3	559.5	981.8	1758.0	2068.0
125°	519.3	596.4	963.2	1628.0	1915.9
127.5°	553.9	629.9	951.5	1513.3	1770.3
130°	574.6	650.6	946.7	1447.6	1673.3
132.5°	595.4	670.4	942.0	1389.7	1597.0
135°	625.3	697.8	936.1	1313.4	1487.2
137.5°	653.8	723.3	933.1	1248.6	1391.4
140°	673.6	740.3	930.3	1208.7	1337.7
142.5°	694.3	756.5	928.4	1171.5	1280.2
145°	723.0	779.4	924.4	1122.9	1205.8
147.5°	754.1	803.1	920.4	1082.0	1147.2
150°	774.8	817.4	918.5	1056.3	1110.4
152.5°	793.7	830.7	917.5	1035.4	1079.3
155°	820.7	850.7	916.1	1007.5	1039.8
157.5°	844.5	867.8	916.4	988.0	1009.6
160°	859.6	879.2	917.3	976.5	992.7
162.5°	872.8	888.7	918.2	967.0	978.5
165°	890.2	900.6	919.7	956.3	960.9
167.5°	904.4	910.3	920.8	948.0	949.8
170°	913.8	916.1	920.8	943.2	943.2
172.5°	919.4	919.9	921.8	938.5	938.5
175°	925.5	924.4	920.8	933.7	931.4
177.5°	928.1	926.3	921.5	929.0	927.2
180°	924.4	924.4	924.4	924.4	924.4

(END OF REPORT)