

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: P563600

Luminaire Tested: **SQ4-PP3-100U-075D-930-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563600
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-PP3-100U-075D-930-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

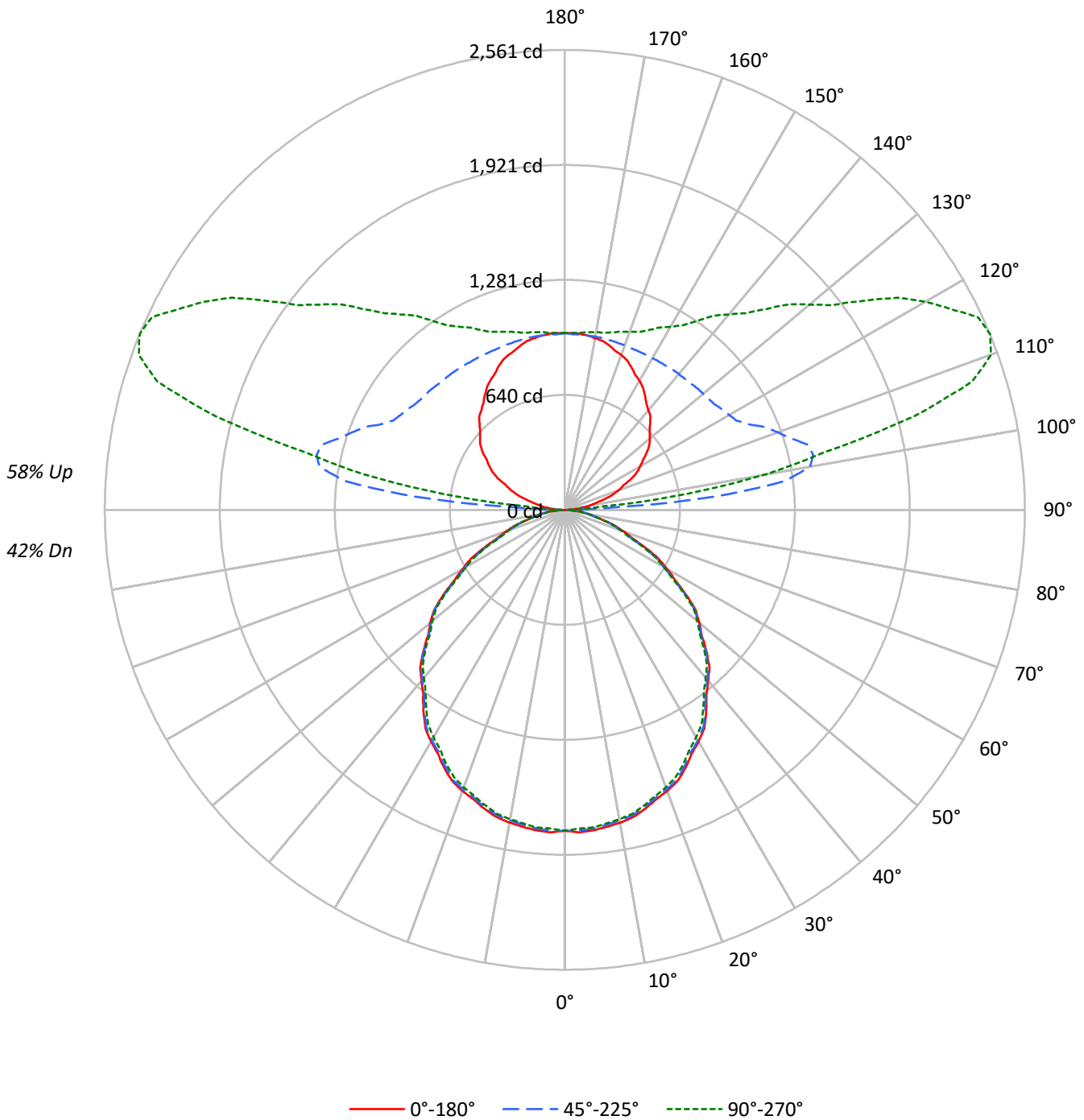
Lumens per Lamp: N/A
Luminaire Lumens: 10966.6 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 103.9
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				
RC	80					70					50					30				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	105	105	105	105	96	96	96	96	79	79	79	63	63	63	49	49	49	42		
1	96	92	88	85	88	84	81	78	69	67	65	56	54	53	43	42	41	35		
2	88	80	74	69	80	74	68	64	61	57	54	49	46	44	38	36	35	30		
3	80	71	64	58	73	65	59	54	54	49	45	43	40	38	34	32	30	26		
4	73	63	55	49	67	57	51	46	48	43	39	39	35	32	30	28	26	22		
5	67	56	48	42	61	51	44	39	43	37	33	35	31	28	27	25	23	19		
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	25	22	20	17		
7	57	45	37	32	52	42	35	30	35	29	26	29	25	22	23	20	18	15		
8	53	41	33	28	48	38	31	26	32	26	23	26	22	19	21	18	16	13		
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14	12		
10	46	34	27	22	42	32	25	21	27	22	18	22	18	16	18	15	13	11		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8241	8241	8241
5°	8302	8251	8222
10°	8288	8229	8193
15°	8233	8188	8143
20°	8179	8133	8071
25°	8081	8025	7946
30°	7932	7890	7790
35°	7724	7671	7574
40°	7477	7430	7345
45°	7273	7222	7150
50°	7012	6967	6900
55°	6649	6561	6511
60°	6053	5880	5850
65°	5332	5111	5093
70°	4603	4413	4413
75°	3962	3907	3852
80°	3493	3536	3454
85°	2736	2985	2985



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.9	1.5
10°-20°	482.4	4.4
20°-30°	722.5	6.6
30°-40°	847.5	7.7
40°-50°	850.1	7.8
50°-60°	725.2	6.6
60°-70°	473.0	4.3
70°-80°	237.3	2.2
80°-90°	67.7	0.6
90°-100°	460.7	4.2
100°-110°	1271.9	11.6
110°-120°	1311.7	12.0
120°-130°	1054.1	9.6
130°-140°	828.4	7.6
140°-150°	635.3	5.8
150°-160°	456.6	4.2
160°-170°	279.2	2.5
170°-180°	94.1	0.9
0°-30°	1373.8	12.5
0°-40°	2221.3	20.3
0°-60°	3796.6	34.6
0°-90°	4574.6	41.7
90°-120°	3044.3	27.8
90°-150°	5562.0	50.7
90°-180°	6392.0	58.3
0°-180°	10966.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1786	1786	1786	1786	1786	
5°	1793	1776	1782	1776	1776	170
15°	1724	1707	1714	1708	1705	486
25°	1588	1569	1577	1563	1561	730
35°	1372	1358	1362	1346	1345	857
45°	1115	1107	1107	1096	1096	858
55°	827	824	816	811	810	735
65°	488	479	468	465	467	488
75°	222	222	219	218	216	241
85°	52	56	56	56	56	61
90°	3	6	13	14	16	7
95°	68	249	836	344	224	72
105°	227	350	1399	2136	2012	241
115°	406	491	1127	2231	2537	399
125°	557	634	1022	1729	2029	496
135°	670	743	993	1400	1579	519
145°	778	831	981	1192	1283	487
155°	877	906	973	1070	1103	404
165°	949	962	978	1015	1023	268
175°	984	985	979	993	990	93
180°	984	984	984	984	984	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1786.5	1786.5	1786.5	1786.5	1786.5
2.5°	1797.8	1783.1	1786.5	1783.9	1776.5
5°	1792.8	1776.0	1781.9	1775.6	1775.6
7.5°	1780.6	1762.2	1768.1	1761.8	1761.5
10°	1769.3	1751.0	1756.8	1750.5	1749.0
12.5°	1753.0	1734.7	1741.8	1734.2	1733.9
15°	1723.9	1707.1	1714.5	1708.2	1705.1
17.5°	1691.0	1672.7	1681.6	1672.8	1671.6
20°	1666.0	1647.6	1656.6	1644.1	1644.1
22.5°	1635.9	1617.5	1627.8	1611.5	1611.5
25°	1587.7	1569.3	1576.7	1562.6	1561.1
27.5°	1530.4	1512.3	1520.1	1504.1	1503.8
30°	1489.1	1472.2	1481.2	1464.0	1462.4
32.5°	1444.0	1428.3	1434.9	1417.6	1416.1
35°	1371.6	1357.8	1362.2	1346.5	1345.0
37.5°	1295.5	1281.4	1286.4	1273.0	1272.3
40°	1241.7	1232.5	1233.8	1222.8	1219.7
42.5°	1191.6	1181.1	1182.5	1171.5	1170.9
45°	1114.8	1107.2	1107.0	1096.0	1096.0
47.5°	1033.4	1027.6	1025.9	1016.8	1016.5
50°	977.0	972.4	970.8	962.9	961.4
52.5°	918.2	916.0	910.7	904.1	903.8
55°	826.7	823.7	815.8	811.0	809.5
57.5°	727.5	721.3	712.4	705.6	706.8
60°	656.1	649.9	637.3	634.1	634.1
62.5°	587.2	579.8	567.1	562.8	565.2
65°	488.5	479.3	468.2	465.1	466.6
67.5°	399.0	390.7	378.6	378.6	377.4
70°	341.3	336.7	327.2	327.2	327.2
72.5°	290.0	287.8	280.9	280.9	279.6
75°	222.3	222.3	219.2	217.6	216.1
77.5°	166.6	167.2	165.7	164.0	161.3
80°	131.5	134.6	133.1	131.5	130.0
82.5°	99.0	102.0	101.8	98.9	98.6
85°	51.7	56.3	56.4	56.4	56.4
87.5°	14.4	19.9	22.6	22.9	24.4
90°	3.1	6.2	12.6	14.2	15.7
92.5°	28.3	117.6	210.3	76.7	59.8
95°	67.7	249.3	835.8	343.6	223.5
97.5°	112.1	279.2	1238.1	953.2	690.4
100°	144.8	297.2	1386.7	1396.5	1134.9
102.5°	176.3	317.6	1415.7	1725.5	1477.4
105°	226.7	349.8	1399.3	2136.3	2011.6
107.5°	280.2	389.8	1321.2	2334.4	2379.9
110°	318.0	416.5	1260.8	2377.0	2524.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	352.0	446.8	1204.1	2343.3	2561.3
115°	406.1	490.7	1127.0	2231.1	2537.3
117.5°	453.3	537.7	1076.3	2073.0	2421.5
120°	484.8	567.9	1056.2	1966.1	2317.0
122.5°	515.0	594.4	1039.8	1866.2	2198.6
125°	557.2	634.2	1021.5	1728.8	2028.9
127.5°	593.1	670.0	1010.8	1612.7	1871.5
130°	617.0	694.0	1005.8	1541.6	1777.1
132.5°	639.7	712.9	1000.8	1481.9	1695.2
135°	670.5	742.9	993.2	1400.2	1578.8
137.5°	705.2	771.0	989.4	1331.6	1484.0
140°	724.1	788.7	986.9	1285.9	1419.8
142.5°	745.5	805.2	984.4	1245.2	1363.1
145°	777.6	831.4	980.6	1192.0	1282.8
147.5°	808.4	855.5	977.2	1147.2	1217.7
150°	831.1	869.6	975.9	1120.4	1177.4
152.5°	848.7	884.7	974.6	1097.5	1144.6
155°	876.7	906.0	972.7	1069.5	1103.4
157.5°	902.5	925.0	973.1	1049.1	1072.2
160°	917.7	937.7	974.3	1037.7	1054.6
162.5°	930.3	947.8	975.6	1027.5	1040.7
165°	949.1	961.5	977.5	1015.4	1023.1
167.5°	963.6	971.0	979.0	1008.1	1010.5
170°	971.2	977.3	979.0	1004.2	1004.2
172.5°	977.5	981.2	979.0	999.2	997.9
175°	983.8	985.3	979.0	993.1	990.1
177.5°	986.3	985.1	978.7	987.5	985.0
180°	983.8	983.8	983.8	983.8	983.8

(END OF REPORT)