

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: P562904

Luminaire Tested: **SQ4-PC3-100U-050D-930-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562904
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-PC3-100U-050D-930-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

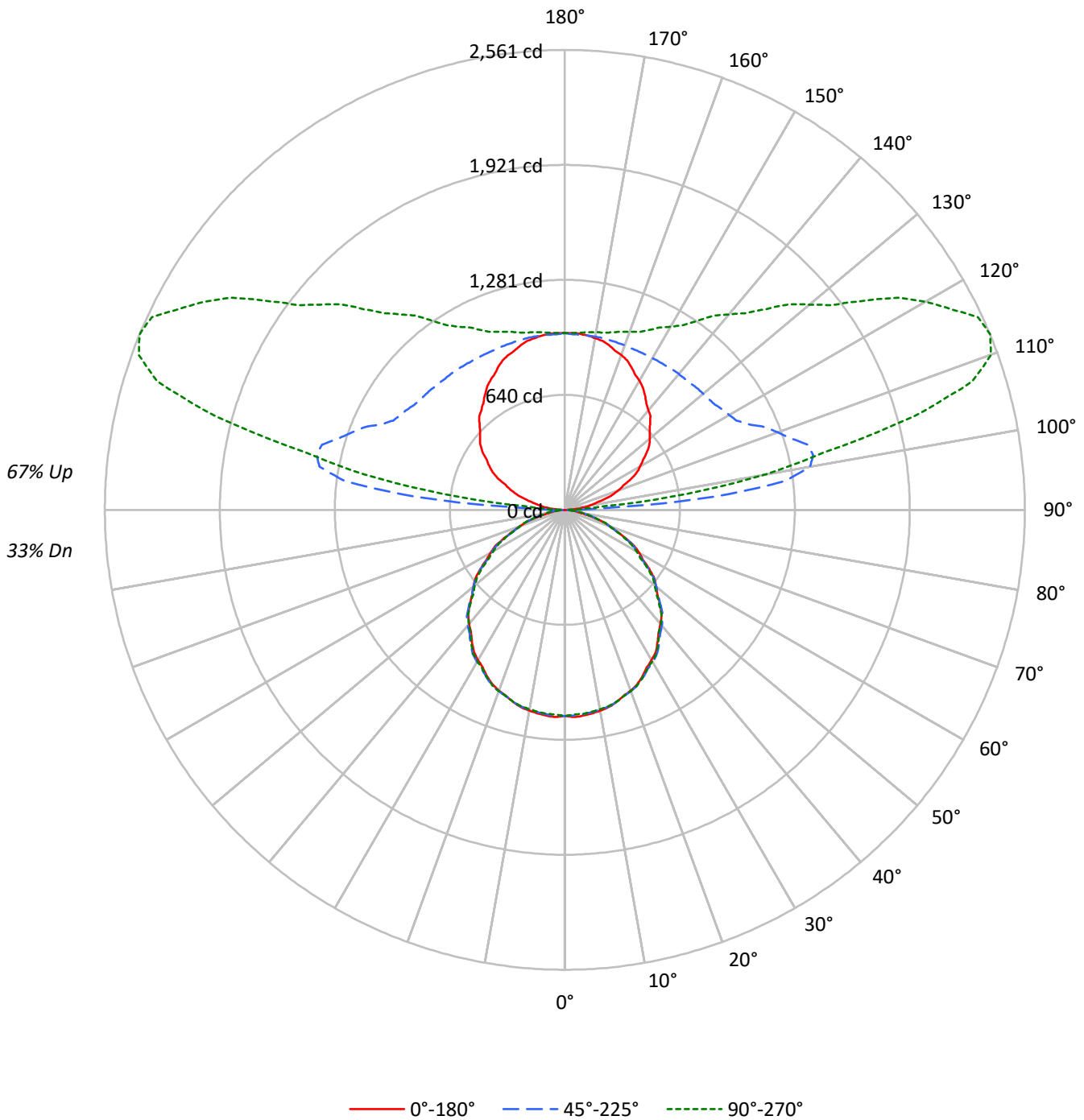
Lumens per Lamp: N/A
Luminaire Lumens: 9526.0 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 84.7
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	103	103	103	103	93	93	93	93	74	74	74	56	56	56	40	40	40	33
1	94	90	86	83	85	81	78	75	65	63	61	50	48	47	36	35	34	28
2	86	78	72	67	77	71	66	62	57	53	50	44	41	39	31	30	29	23
3	78	69	62	56	70	62	56	51	50	46	42	38	36	33	28	26	24	20
4	71	61	53	47	64	55	48	43	44	39	36	34	31	28	25	23	21	17
5	65	54	46	40	59	49	42	37	39	34	31	31	27	24	22	20	18	15
6	60	48	40	35	54	44	37	32	35	30	27	28	24	21	20	18	16	13
7	55	43	36	30	50	40	33	28	32	27	23	25	21	19	18	16	14	11
8	51	39	32	27	46	36	29	25	29	24	21	23	19	17	17	14	13	10
9	48	36	29	24	43	33	26	22	27	22	18	21	17	15	16	13	11	9
10	44	33	26	21	40	30	24	19	24	20	16	19	16	13	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5294	5294	5294
5°	5334	5299	5280
10°	5321	5296	5281
15°	5293	5293	5288
20°	5258	5274	5274
25°	5209	5246	5230
30°	5145	5207	5185
35°	5068	5146	5111
40°	4985	5055	5004
45°	4894	4929	4852
50°	4766	4766	4690
55°	4615	4555	4487
60°	4392	4304	4235
65°	4059	3979	3944
70°	3554	3582	3569
75°	2861	3164	3182
80°	2032	2680	2710
85°	1239	2249	2249



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.6	1.1
10°-20°	311.7	3.3
20°-30°	472.0	5.0
30°-40°	565.9	5.9
40°-50°	577.0	6.1
50°-60°	503.7	5.3
60°-70°	360.6	3.8
70°-80°	185.7	1.9
80°-90°	49.0	0.5
90°-100°	460.7	4.8
100°-110°	1271.9	13.4
110°-120°	1311.7	13.8
120°-130°	1054.1	11.1
130°-140°	828.4	8.7
140°-150°	635.3	6.7
150°-160°	456.6	4.8
160°-170°	279.2	2.9
170°-180°	94.1	1.0
0°-30°	892.3	9.4
0°-40°	1458.1	15.3
0°-60°	2538.8	26.7
0°-90°	3134.0	32.9
90°-120°	3044.3	32.0
90°-150°	5562.0	58.4
90°-180°	6392.0	67.1
0°-180°	9526.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1148	1148	1148	1148	1148	
5°	1152	1140	1144	1141	1140	109
15°	1108	1099	1108	1108	1107	312
25°	1023	1016	1031	1028	1028	471
35°	900	898	914	908	908	563
45°	750	748	756	746	744	577
55°	574	566	566	558	558	511
65°	372	364	364	361	361	368
75°	160	168	178	178	178	173
85°	23	36	42	44	42	32
90°	3	6	13	14	16	6
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°	1147.6	1147.6	1147.6	1147.6	1147.6
2.5°	1154.4	1144.4	1147.6	1145.0	1140.8
5°	1151.9	1140.4	1144.4	1141.2	1140.2
7.5°	1143.6	1132.1	1137.4	1135.3	1134.2
10°	1135.9	1124.5	1130.6	1128.5	1127.4
12.5°	1125.7	1115.1	1122.1	1120.0	1119.8
15°	1108.3	1098.9	1108.3	1108.3	1107.2
17.5°	1086.4	1077.9	1087.9	1088.5	1087.9
20°	1071.1	1061.7	1074.3	1073.2	1074.3
22.5°	1052.4	1044.7	1058.1	1055.4	1056.4
25°	1023.3	1016.0	1030.7	1027.5	1027.5
27.5°	988.9	983.7	999.7	996.3	996.3
30°	965.9	960.7	977.6	973.3	973.3
32.5°	940.4	936.9	952.9	947.8	947.8
35°	900.0	897.9	913.8	907.5	907.5
37.5°	858.4	856.5	870.9	863.2	860.7
40°	827.8	826.7	839.5	831.0	831.0
42.5°	797.2	796.1	807.1	796.9	796.9
45°	750.2	748.1	755.5	745.9	743.8
47.5°	699.0	696.9	701.5	691.1	690.1
50°	664.1	662.0	664.1	654.5	653.5
52.5°	628.4	624.7	625.0	615.5	615.2
55°	573.8	566.5	566.4	557.9	557.9
57.5°	516.0	506.4	507.3	500.0	499.0
60°	476.0	465.7	466.5	460.1	459.0
62.5°	436.9	424.9	427.4	420.1	419.9
65°	371.9	363.6	364.5	361.3	361.3
67.5°	309.4	301.7	307.3	304.7	304.5
70°	263.5	258.3	265.6	265.6	264.6
72.5°	221.0	220.8	229.9	230.0	230.6
75°	160.5	167.7	177.5	178.5	178.5
77.5°	107.1	120.0	130.7	131.1	130.9
80°	76.5	91.1	100.9	103.0	102.0
82.5°	51.9	67.2	75.4	77.5	76.5
85°	23.4	35.8	42.5	43.5	42.5
87.5°	7.4	15.5	19.5	19.8	18.4
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)