

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: P561729

Luminaire Tested: **SQ4-PC3-150U-050D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561729
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-92765-1D-UNV-STD-W-4 (4500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

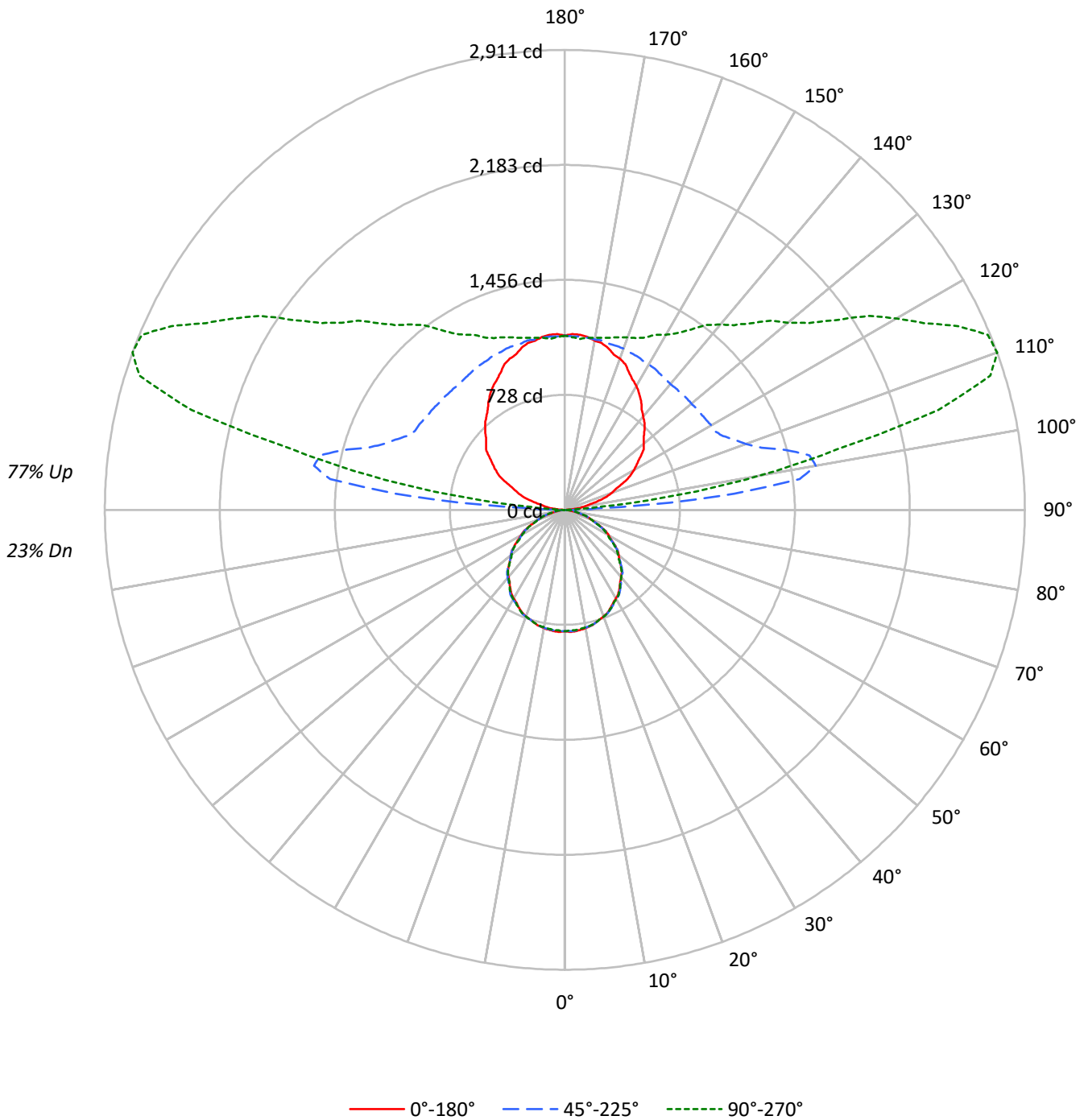
Lumens per Lamp: N/A
Luminaire Lumens: 8946.4 lumens
Efficiency: N/A
Efficacy: 124.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 71.8
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	50	30	10	0	
RCR																						
0	101	101	101	101	90	90	90	90	69	69	69	49	49	49	32	32	32	23				
1	92	88	84	81	81	78	75	72	60	58	56	43	42	41	28	27	27	20				
2	84	77	71	66	74	68	63	59	53	49	46	38	36	34	25	24	23	17				
3	76	67	60	55	67	60	54	49	46	42	39	34	31	29	22	20	19	14				
4	70	59	52	46	62	53	47	42	41	37	33	30	27	25	19	18	16	12				
5	64	53	45	39	56	47	40	36	36	32	28	27	24	21	17	16	14	10				
6	59	47	39	34	52	42	35	31	33	28	24	24	21	18	16	14	12	9				
7	54	42	35	29	48	38	31	27	30	25	21	22	19	16	14	12	11	8				
8	50	38	31	26	44	34	28	23	27	22	19	20	17	14	13	11	10	7				
9	46	35	28	23	41	31	25	21	24	20	17	18	15	13	12	10	9	6				
10	43	32	25	20	38	28	22	18	22	18	15	17	14	11	11	9	8	6				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7093	7093	7093
5°	7146	7100	7074
10°	7129	7096	7075
15°	7091	7091	7084
20°	7045	7065	7065
25°	6978	7029	7007
30°	6893	6977	6946
35°	6791	6895	6847
40°	6678	6772	6704
45°	6557	6604	6502
50°	6386	6386	6284
55°	6183	6103	6011
60°	5884	5766	5674
65°	5438	5331	5283
70°	4761	4802	4780
75°	3832	4238	4263
80°	2726	3592	3629
85°	1662	3017	3017



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.8	0.8
10°-20°	208.8	2.3
20°-30°	316.2	3.5
30°-40°	379.1	4.2
40°-50°	386.5	4.3
50°-60°	337.4	3.8
60°-70°	241.5	2.7
70°-80°	124.4	1.4
80°-90°	31.5	0.4
90°-100°	502.4	5.6
100°-110°	1429.4	16.0
110°-120°	1369.6	15.3
120°-130°	1083.9	12.1
130°-140°	870.0	9.7
140°-150°	681.1	7.6
150°-160°	498.4	5.6
160°-170°	308.7	3.5
170°-180°	104.8	1.2
0°-30°	597.7	6.7
0°-40°	976.8	10.9
0°-60°	1700.7	19.0
0°-90°	2098.1	23.5
90°-120°	3301.4	36.9
90°-150°	5936.5	66.4
90°-180°	6848.0	76.5
0°-180°	8946.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	769	769	769	769	769	
5°	772	764	767	764	764	73
15°	742	736	742	742	742	209
25°	686	681	690	688	688	315
35°	603	602	612	608	608	377
45°	502	501	506	500	498	387
55°	384	380	379	374	374	343
65°	249	244	244	242	242	246
75°	108	112	119	120	120	116
85°	16	24	28	29	28	21
90°	0	0	0	0	0	3
95°	54	216	972	337	208	62
105°	222	337	1457	2573	2446	235
115°	413	499	1105	2340	2748	407
125°	583	646	1054	1750	2092	522
135°	713	772	1042	1478	1670	550
145°	840	884	1050	1279	1394	525
155°	960	982	1075	1156	1203	444
165°	1061	1065	1088	1111	1128	298
175°	1111	1105	1100	1094	1086	105
180°	1102	1102	1102	1102	1102	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	768.8	768.8	768.8	768.8	768.8
2.5°	773.3	766.6	768.8	767.0	764.2
5°	771.6	764.0	766.6	764.5	763.8
7.5°	766.1	758.4	761.9	760.5	759.8
10°	760.9	753.3	757.4	755.9	755.2
12.5°	754.1	747.0	751.7	750.2	750.1
15°	742.4	736.2	742.4	742.4	741.7
17.5°	727.8	722.1	728.8	729.2	728.8
20°	717.5	711.2	719.6	718.9	719.6
22.5°	705.0	699.8	708.8	707.0	707.7
25°	685.5	680.6	690.5	688.3	688.3
27.5°	662.4	658.9	669.7	667.4	667.4
30°	647.0	643.6	654.9	652.0	652.0
32.5°	630.0	627.6	638.4	634.9	634.9
35°	602.9	601.5	612.2	607.9	607.9
37.5°	575.0	573.8	583.4	578.2	576.6
40°	554.5	553.8	562.3	556.6	556.6
42.5°	534.0	533.3	540.7	533.9	533.9
45°	502.5	501.1	506.1	499.7	498.3
47.5°	468.2	466.8	469.9	462.9	462.3
50°	444.9	443.5	444.9	438.5	437.8
52.5°	421.0	418.5	418.7	412.3	412.1
55°	384.4	379.5	379.4	373.7	373.7
57.5°	345.7	339.3	339.8	335.0	334.3
60°	318.9	311.9	312.5	308.2	307.5
62.5°	292.7	284.6	286.3	281.4	281.3
65°	249.1	243.6	244.2	242.0	242.0
67.5°	207.3	202.1	205.9	204.1	204.0
70°	176.5	173.0	178.0	177.9	177.2
72.5°	148.1	147.9	154.0	154.0	154.5
75°	107.5	112.4	118.9	119.6	119.6
77.5°	71.8	80.4	87.6	87.8	87.7
80°	51.3	61.0	67.6	69.0	68.3
82.5°	34.7	45.0	50.5	51.9	51.3
85°	15.7	24.0	28.5	29.2	28.5
87.5°	4.6	9.6	11.4	11.4	10.3
90°	0.0	0.0	0.0	0.0	0.0
92.5°	16.8	88.9	206.2	60.0	45.3
95°	54.5	216.4	972.5	336.6	207.5
97.5°	100.2	253.5	1497.8	1071.8	734.4
100°	132.0	275.5	1611.8	1632.6	1257.6
102.5°	167.3	299.2	1586.6	2089.8	1762.3
105°	222.2	336.9	1456.7	2573.1	2446.0
107.5°	277.9	380.8	1305.0	2709.3	2822.4
110°	316.5	412.8	1217.8	2657.2	2911.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	353.4	444.8	1159.1	2533.9	2896.2
115°	412.9	499.0	1104.6	2340.0	2747.8
117.5°	465.3	546.1	1072.3	2128.0	2560.0
120°	507.2	574.9	1068.9	2006.9	2420.8
122.5°	540.8	608.4	1060.6	1900.6	2285.0
125°	582.7	646.2	1054.3	1749.5	2091.8
127.5°	628.4	687.8	1050.9	1659.3	1941.3
130°	651.8	711.3	1045.9	1596.4	1842.4
132.5°	677.0	734.8	1045.9	1547.4	1773.6
135°	712.6	772.1	1041.7	1477.8	1670.5
137.5°	746.2	804.0	1041.3	1419.0	1585.4
140°	771.3	830.7	1039.6	1370.2	1530.1
142.5°	799.8	849.4	1044.6	1331.3	1474.7
145°	840.5	883.5	1050.1	1279.1	1393.8
147.5°	875.3	917.1	1059.3	1226.3	1325.5
150°	905.5	934.2	1062.7	1208.9	1278.5
152.5°	928.9	959.3	1066.0	1185.3	1250.0
155°	960.0	982.5	1075.2	1156.0	1203.1
157.5°	998.5	1012.0	1077.3	1142.6	1176.3
160°	1018.6	1028.9	1085.7	1132.5	1161.2
162.5°	1030.4	1042.3	1087.4	1123.9	1146.1
165°	1060.6	1064.7	1087.8	1111.2	1127.6
167.5°	1081.1	1077.4	1097.4	1108.1	1114.6
170°	1087.8	1085.8	1094.1	1096.4	1104.6
172.5°	1102.9	1095.9	1099.1	1093.0	1099.5
175°	1110.9	1104.7	1100.4	1093.9	1085.7
177.5°	1114.2	1104.4	1099.1	1092.5	1094.1
180°	1102.5	1102.5	1102.5	1102.5	1102.5

(END OF REPORT)