

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: P523898

Luminaire Tested: **SQ4-PP3-125U-075D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523898
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/24/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-125U-075D-92765-1D-UNV-STD-W-4 (5700K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

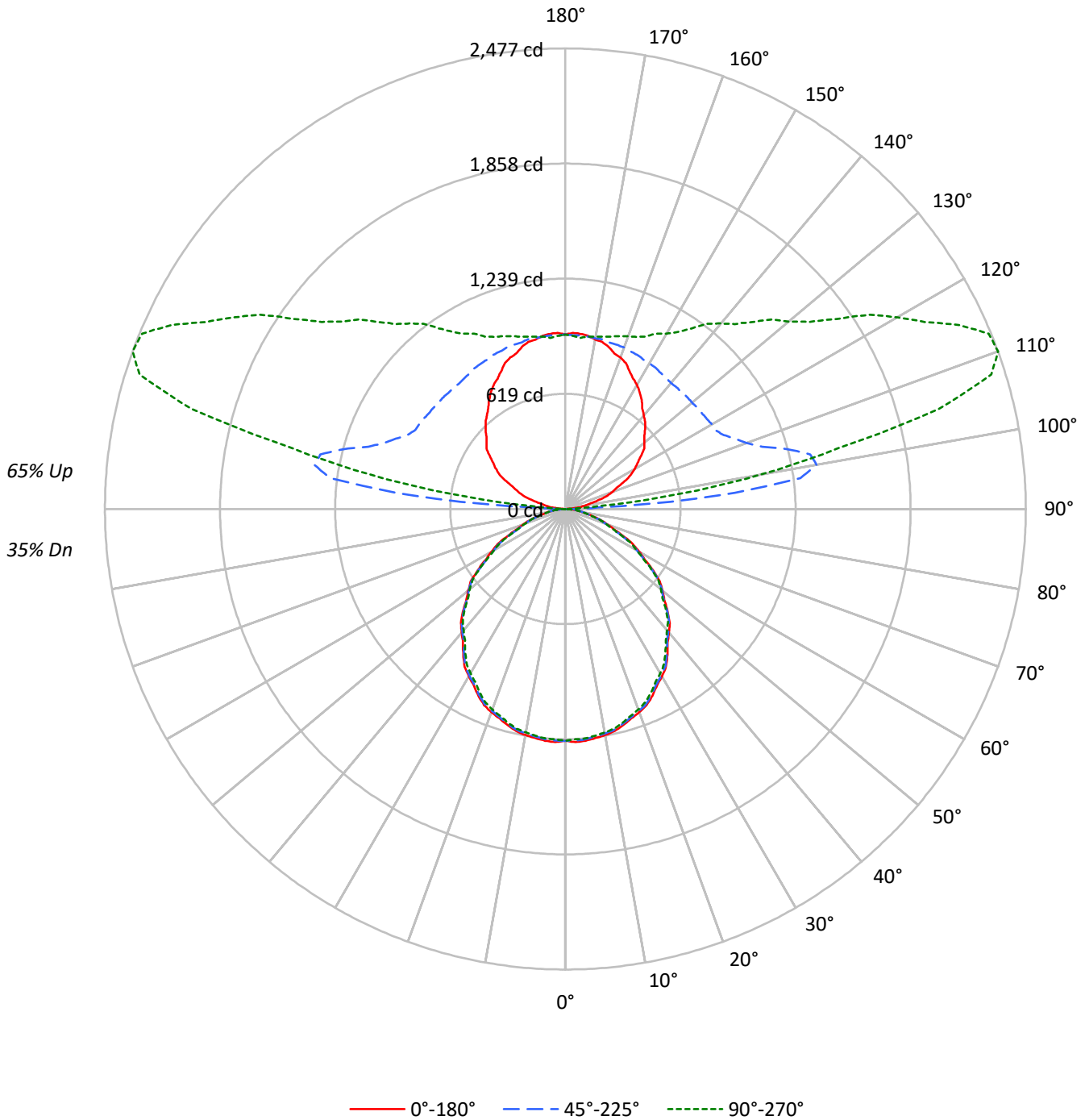
Lumens per Lamp: N/A
Luminaire Lumens: 9018.9 lumens
Efficiency: N/A
Efficacy: 123.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 73.2
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	104	104	104	104	94	94	94	94	75	75	75	58	58	58	43	43	43	35
1	95	91	87	83	85	82	79	76	66	64	62	51	50	49	38	37	36	30
2	86	79	73	68	78	72	67	63	58	54	51	45	43	41	34	32	31	25
3	79	70	63	57	71	63	57	52	51	47	43	40	37	35	30	28	26	22
4	72	62	54	48	65	56	49	44	45	41	37	36	32	30	27	24	23	19
5	66	55	47	41	59	50	43	38	41	36	32	32	28	26	24	22	20	16
6	61	49	41	36	55	45	38	33	37	31	28	29	25	22	22	19	17	14
7	56	44	36	31	51	40	34	29	33	28	24	26	23	20	20	17	15	13
8	52	40	32	27	47	37	30	25	30	25	21	24	20	18	18	16	14	11
9	48	36	29	24	44	33	27	23	28	23	19	22	18	16	17	14	12	10
10	45	33	26	22	41	31	24	20	25	20	17	20	17	14	16	13	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11505	11505	11505
5°	11590	11518	11479
10°	11570	11489	11437
15°	11494	11431	11368
20°	11418	11353	11268
25°	11281	11204	11092
30°	11073	11015	10875
35°	10783	10709	10574
40°	10438	10372	10254
45°	10154	10082	9982
50°	9789	9726	9633
55°	9283	9159	9088
60°	8449	8208	8167
65°	7444	7134	7110
70°	6428	6161	6161
75°	5532	5454	5376
80°	4877	4936	4819
85°	3822	4160	4160



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.9	1.3
10°-20°	336.7	3.7
20°-30°	504.3	5.6
30°-40°	591.5	6.6
40°-50°	593.4	6.6
50°-60°	506.2	5.6
60°-70°	330.1	3.7
70°-80°	165.6	1.8
80°-90°	45.8	0.5
90°-100°	427.5	4.7
100°-110°	1216.3	13.5
110°-120°	1165.4	12.9
120°-130°	922.3	10.2
130°-140°	740.3	8.2
140°-150°	579.6	6.4
150°-160°	424.1	4.7
160°-170°	262.7	2.9
170°-180°	89.1	1.0
0°-30°	958.9	10.6
0°-40°	1550.5	17.2
0°-60°	2650.1	29.4
0°-90°	3191.7	35.4
90°-120°	2809.1	31.1
90°-150°	5051.4	56.0
90°-180°	5827.0	64.6
0°-180°	9018.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1247	1247	1247	1247	1247	
5°	1251	1240	1244	1239	1239	119
15°	1203	1192	1197	1192	1190	339
25°	1108	1095	1101	1091	1090	510
35°	957	948	951	940	939	598
45°	778	773	773	765	765	599
55°	577	575	569	566	565	513
65°	341	335	327	325	326	340
75°	155	155	153	152	151	168
85°	36	39	39	39	39	42
90°	0	0	0	0	0	3
95°	46	184	828	286	177	53
105°	189	287	1240	2189	2081	200
115°	351	425	940	1991	2338	346
125°	496	550	897	1489	1780	444
135°	606	657	886	1258	1421	468
145°	715	752	894	1088	1186	447
155°	817	836	915	984	1024	378
165°	902	906	926	946	960	254
175°	945	940	936	931	924	90
180°	938	938	938	938	938	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1247.0	1247.0	1247.0	1247.0	1247.0
2.5°	1254.9	1244.6	1247.0	1245.2	1240.0
5°	1251.4	1239.6	1243.7	1239.4	1239.4
7.5°	1242.9	1230.0	1234.1	1229.8	1229.5
10°	1235.0	1222.2	1226.3	1221.9	1220.8
12.5°	1223.6	1210.8	1215.8	1210.5	1210.3
15°	1203.3	1191.6	1196.8	1192.3	1190.2
17.5°	1180.4	1167.5	1173.8	1167.7	1166.8
20°	1162.9	1150.0	1156.3	1147.6	1147.6
22.5°	1141.9	1129.1	1136.2	1124.8	1124.8
25°	1108.2	1095.4	1100.6	1090.7	1089.6
27.5°	1068.2	1055.6	1061.0	1049.9	1049.6
30°	1039.4	1027.6	1033.9	1021.9	1020.8
32.5°	1007.9	997.0	1001.6	989.5	988.4
35°	957.4	947.8	950.8	939.9	938.8
37.5°	904.3	894.5	897.9	888.5	888.1
40°	866.7	860.3	861.2	853.5	851.4
42.5°	831.7	824.4	825.4	817.7	817.3
45°	778.2	772.8	772.7	765.0	765.0
47.5°	721.3	717.3	716.1	709.7	709.5
50°	682.0	678.8	677.6	672.1	671.1
52.5°	640.9	639.4	635.6	631.0	630.8
55°	577.1	574.9	569.4	566.1	565.0
57.5°	507.8	503.5	497.3	492.5	493.3
60°	457.9	453.7	444.8	442.6	442.6
62.5°	409.8	404.7	395.9	392.8	394.5
65°	341.0	334.6	326.8	324.6	325.7
67.5°	278.5	272.7	264.3	264.2	263.4
70°	238.3	235.1	228.4	228.4	228.4
72.5°	202.4	200.9	196.1	196.1	195.2
75°	155.2	155.2	153.0	151.9	150.8
77.5°	116.3	116.7	115.6	114.5	112.6
80°	91.8	93.9	92.9	91.8	90.7
82.5°	69.1	71.2	71.0	69.1	68.9
85°	36.1	39.3	39.3	39.3	39.3
87.5°	9.6	13.0	14.0	14.0	14.9
90°	0.0	0.0	0.0	0.0	0.0
92.5°	14.3	75.7	175.5	51.1	38.5
95°	46.4	184.1	827.5	286.4	176.6
97.5°	85.2	215.7	1274.5	912.0	624.9
100°	112.4	234.4	1371.5	1389.2	1070.1
102.5°	142.3	254.6	1350.1	1778.2	1499.5
105°	189.0	286.7	1239.5	2189.4	2081.3
107.5°	236.5	324.0	1110.4	2305.4	2401.6
110°	269.3	351.3	1036.2	2261.0	2477.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	300.7	378.5	986.3	2156.1	2464.4
115°	351.3	424.6	939.9	1991.1	2338.1
117.5°	395.9	464.6	912.4	1810.7	2178.3
120°	431.6	489.1	909.6	1707.7	2059.9
122.5°	460.1	517.7	902.4	1617.2	1944.3
125°	495.8	549.9	897.1	1488.7	1779.9
127.5°	534.7	585.3	894.2	1411.9	1651.8
130°	554.7	605.2	890.0	1358.4	1567.7
132.5°	576.1	625.2	890.0	1316.7	1509.2
135°	606.4	657.0	886.4	1257.5	1421.4
137.5°	634.9	684.1	886.0	1207.4	1349.0
140°	656.3	706.9	884.6	1165.9	1301.9
142.5°	680.6	722.8	888.9	1132.8	1254.8
145°	715.2	751.8	893.5	1088.4	1186.0
147.5°	744.8	780.4	901.4	1043.5	1127.9
150°	770.5	794.9	904.2	1028.6	1087.9
152.5°	790.4	816.2	907.1	1008.6	1063.7
155°	816.8	836.0	914.9	983.6	1023.7
157.5°	849.6	861.2	916.7	972.3	1000.9
160°	866.8	875.5	923.8	963.6	988.0
162.5°	876.8	886.9	925.3	956.4	975.2
165°	902.4	905.9	925.6	945.6	959.5
167.5°	919.9	916.8	933.8	942.9	948.4
170°	925.6	923.9	931.0	932.9	939.9
172.5°	938.5	932.5	935.3	930.0	935.6
175°	945.2	940.0	936.3	930.8	923.8
177.5°	948.1	939.7	935.3	929.6	931.0
180°	938.1	938.1	938.1	938.1	938.1

(END OF REPORT)