

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: P564394

Luminaire Tested: **SQ4-PR1-125U-100D-935-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564394
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-125U-100D-935-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7642.8 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

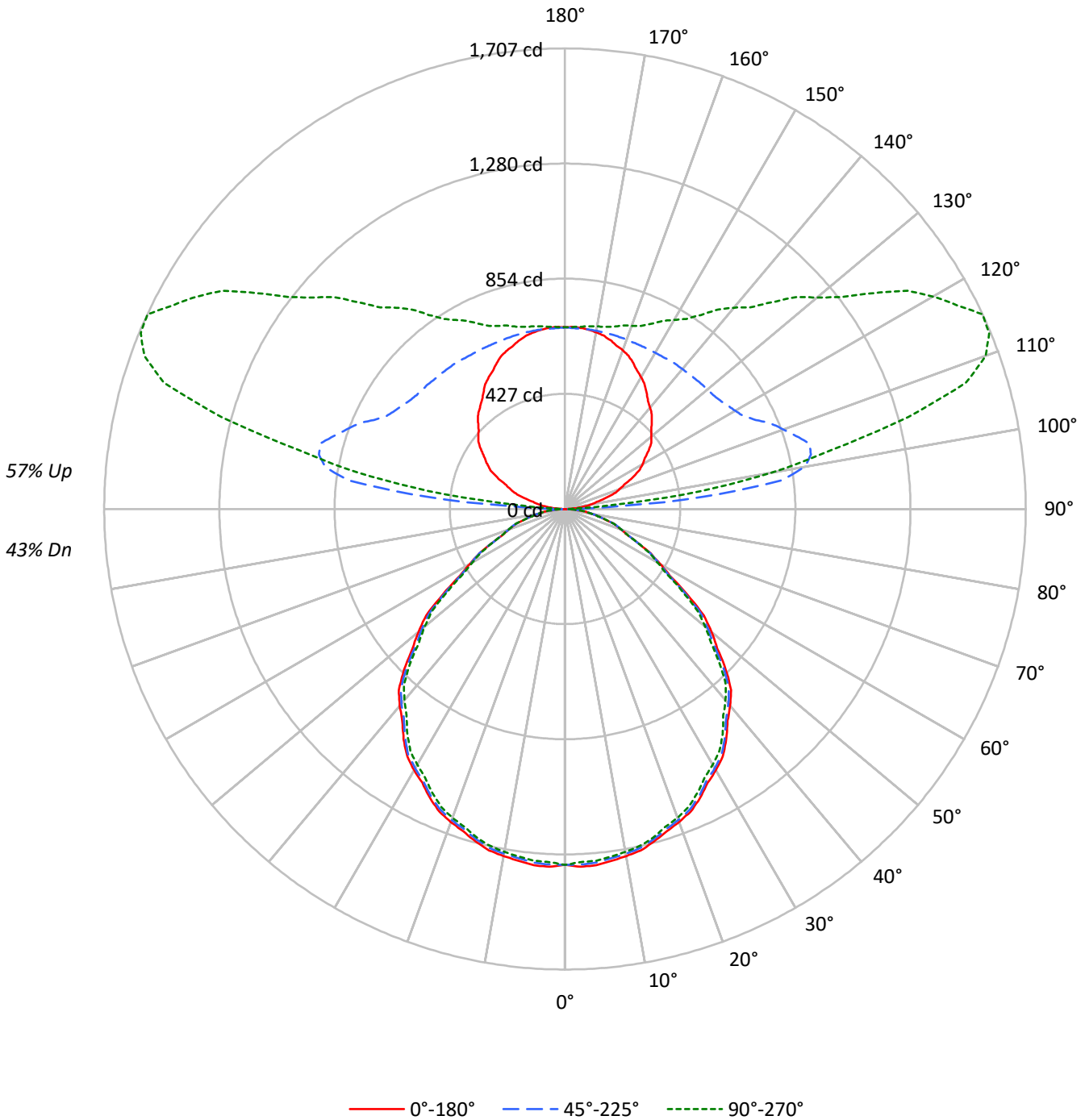
Input Watts (W): 64.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	106	106	106	106	96	96	96	96	80	80	80	64	64	64	50	50	50	43				
1	96	92	89	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	48	45	39	38	36	31				
3	80	71	64	59	73	65	59	54	55	50	46	44	41	39	35	33	31	27				
4	74	63	55	50	67	58	51	46	49	44	40	40	36	33	31	29	27	23				
5	68	56	48	43	62	52	45	40	44	38	34	36	32	29	28	26	24	20				
6	62	51	43	37	57	47	40	35	39	34	30	32	28	25	26	23	21	18				
7	58	46	38	32	53	42	35	30	36	30	26	29	25	22	24	21	19	16				
8	53	41	34	29	49	38	32	27	32	27	23	27	23	20	22	19	17	14				
9	50	38	30	25	45	35	28	24	30	25	21	25	21	18	20	17	15	13				
10	46	35	27	23	42	32	26	21	27	22	19	23	19	16	19	16	14	12				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12169	12169	12169
5°	12279	12184	12121
10°	12240	12155	12091
15°	12186	12111	12046
20°	12125	12047	11958
25°	12040	11958	11820
30°	11910	11825	11656
35°	11734	11631	11465
40°	11466	11343	11138
45°	10999	10806	10584
50°	10175	9931	9736
55°	8881	8680	8498
60°	7484	7422	7274
65°	6473	6499	6449
70°	5945	5975	5975
75°	5711	5711	5750
80°	5372	5430	5372
85°	4330	4806	4806



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.7	1.6
10°-20°	356.9	4.7
20°-30°	538.3	7.0
30°-40°	641.4	8.4
40°-50°	632.3	8.3
50°-60°	483.2	6.3
60°-70°	299.1	3.9
70°-80°	169.9	2.2
80°-90°	53.2	0.7
90°-100°	314.8	4.1
100°-110°	847.9	11.1
110°-120°	889.9	11.6
120°-130°	722.1	9.4
130°-140°	566.3	7.4
140°-150°	434.8	5.7
150°-160°	312.6	4.1
160°-170°	191.0	2.5
170°-180°	64.4	0.8
0°-30°	1019.9	13.3
0°-40°	1661.2	21.7
0°-60°	2776.8	36.3
0°-90°	3298.9	43.2
90°-120°	2052.6	26.9
90°-150°	3775.9	49.4
90°-180°	4344.0	56.8
0°-180°	7642.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1319	1319	1319	1319	1319	
5°	1326	1311	1316	1311	1309	126
15°	1276	1262	1268	1263	1261	360
25°	1183	1168	1175	1162	1161	544
35°	1042	1030	1033	1019	1018	650
45°	843	832	828	813	811	646
55°	552	543	540	530	528	495
65°	296	294	298	295	295	300
75°	160	160	160	161	161	169
85°	41	43	45	45	45	48
90°	2	5	10	11	11	5
95°	48	171	516	264	183	50
105°	157	244	938	1403	1317	165
115°	277	339	781	1509	1707	272
125°	378	434	701	1185	1395	338
135°	455	508	682	956	1083	351
145°	526	567	673	817	878	330
155°	598	619	667	733	757	275
165°	648	656	670	696	700	183
175°	674	673	670	680	678	64
180°	673	673	673	673	673	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1319.0	1319.0	1319.0	1319.0	1319.0
2.5°	1327.2	1315.6	1319.0	1316.1	1309.9
5°	1325.8	1311.4	1315.6	1311.0	1308.8
7.5°	1315.6	1301.4	1305.6	1301.0	1299.7
10°	1306.5	1293.2	1297.4	1292.8	1290.6
12.5°	1296.5	1282.3	1287.4	1281.9	1279.7
15°	1275.8	1262.5	1267.9	1263.3	1261.1
17.5°	1253.1	1238.9	1244.3	1239.0	1236.1
20°	1234.9	1221.6	1227.0	1219.0	1217.9
22.5°	1214.9	1201.6	1207.0	1196.3	1196.1
25°	1182.7	1168.2	1174.7	1162.2	1161.1
27.5°	1144.3	1130.9	1136.3	1123.6	1122.2
30°	1117.9	1104.6	1110.0	1096.3	1094.1
32.5°	1087.9	1075.5	1080.0	1066.3	1065.0
35°	1041.8	1029.6	1032.7	1019.1	1017.9
37.5°	989.3	978.2	980.0	965.0	963.9
40°	952.0	940.9	941.8	925.9	924.8
42.5°	911.2	900.0	899.1	883.2	882.1
45°	843.0	831.9	828.2	813.4	811.2
47.5°	765.3	754.2	747.3	735.2	733.7
50°	708.9	697.8	691.9	681.6	678.3
52.5°	648.0	636.9	631.9	622.5	619.2
55°	552.1	543.3	539.6	530.5	528.3
57.5°	461.0	455.0	454.0	445.1	444.2
60°	405.6	402.3	402.2	394.2	394.2
62.5°	358.3	355.9	357.6	352.4	351.5
65°	296.5	294.3	297.7	295.4	295.4
67.5°	247.7	247.7	249.7	248.8	248.8
70°	220.4	220.4	221.5	221.5	221.5
72.5°	195.9	195.0	197.9	197.9	197.0
75°	160.2	160.2	160.2	161.3	161.3
77.5°	124.7	125.0	125.9	125.6	124.7
80°	101.1	102.2	102.2	101.1	101.1
82.5°	77.5	78.6	78.6	78.4	77.5
85°	40.9	43.1	45.4	45.4	45.4
87.5°	12.2	16.4	20.2	20.4	19.5
90°	1.7	5.1	10.3	11.1	11.1
92.5°	20.9	73.9	146.1	70.3	48.9
95°	48.0	171.2	516.0	263.9	182.6
97.5°	76.6	196.0	809.3	676.1	509.9
100°	98.6	205.9	902.6	944.4	783.5
102.5°	119.8	219.7	933.5	1145.3	1013.2
105°	156.9	244.0	937.8	1403.0	1316.6
107.5°	191.8	269.6	897.8	1535.4	1557.7
110°	215.2	288.9	861.5	1576.5	1657.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	239.8	308.2	826.5	1567.4	1701.0
115°	276.9	338.9	780.9	1508.8	1706.6
117.5°	310.6	368.8	745.6	1415.4	1635.7
120°	332.6	388.7	727.7	1348.3	1574.6
122.5°	351.8	407.3	714.7	1279.8	1505.4
125°	378.0	434.2	701.2	1185.1	1394.6
127.5°	403.2	458.5	692.6	1101.6	1288.7
130°	418.3	473.6	689.2	1053.8	1218.1
132.5°	433.4	488.0	685.7	1011.6	1162.5
135°	455.2	508.0	681.5	956.1	1082.6
137.5°	475.9	526.5	679.2	908.9	1012.8
140°	490.3	538.9	677.2	879.9	973.8
142.5°	505.4	550.7	675.8	852.8	931.9
145°	526.3	567.4	672.9	817.4	877.8
147.5°	548.9	584.6	670.0	787.6	835.1
150°	564.0	595.0	668.6	768.9	808.3
152.5°	577.7	604.7	667.9	753.7	785.7
155°	597.5	619.2	666.9	733.4	756.9
157.5°	614.8	631.7	667.1	719.2	734.9
160°	625.7	640.0	667.7	710.9	722.6
162.5°	635.3	646.9	668.4	703.9	712.3
165°	648.0	655.6	669.5	696.1	699.5
167.5°	658.3	662.7	670.3	690.1	691.4
170°	665.2	666.8	670.3	686.6	686.6
172.5°	669.3	669.6	671.0	683.2	683.2
175°	673.7	672.9	670.3	679.7	678.0
177.5°	675.6	674.3	670.8	676.3	674.9
180°	672.9	672.9	672.9	672.9	672.9

(END OF REPORT)