

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P845039

Luminaire Tested: **SQ4P-PC3-125U-075D-B35-1D-UNV**

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-08
Report Number: P845039
REPORT IS A COMBINATION OF REPORTS P700112 AND P700247
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-PC3-125U-075D-B35-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 1250 LUMENS PER FOOT
UPLIGHT, 750 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

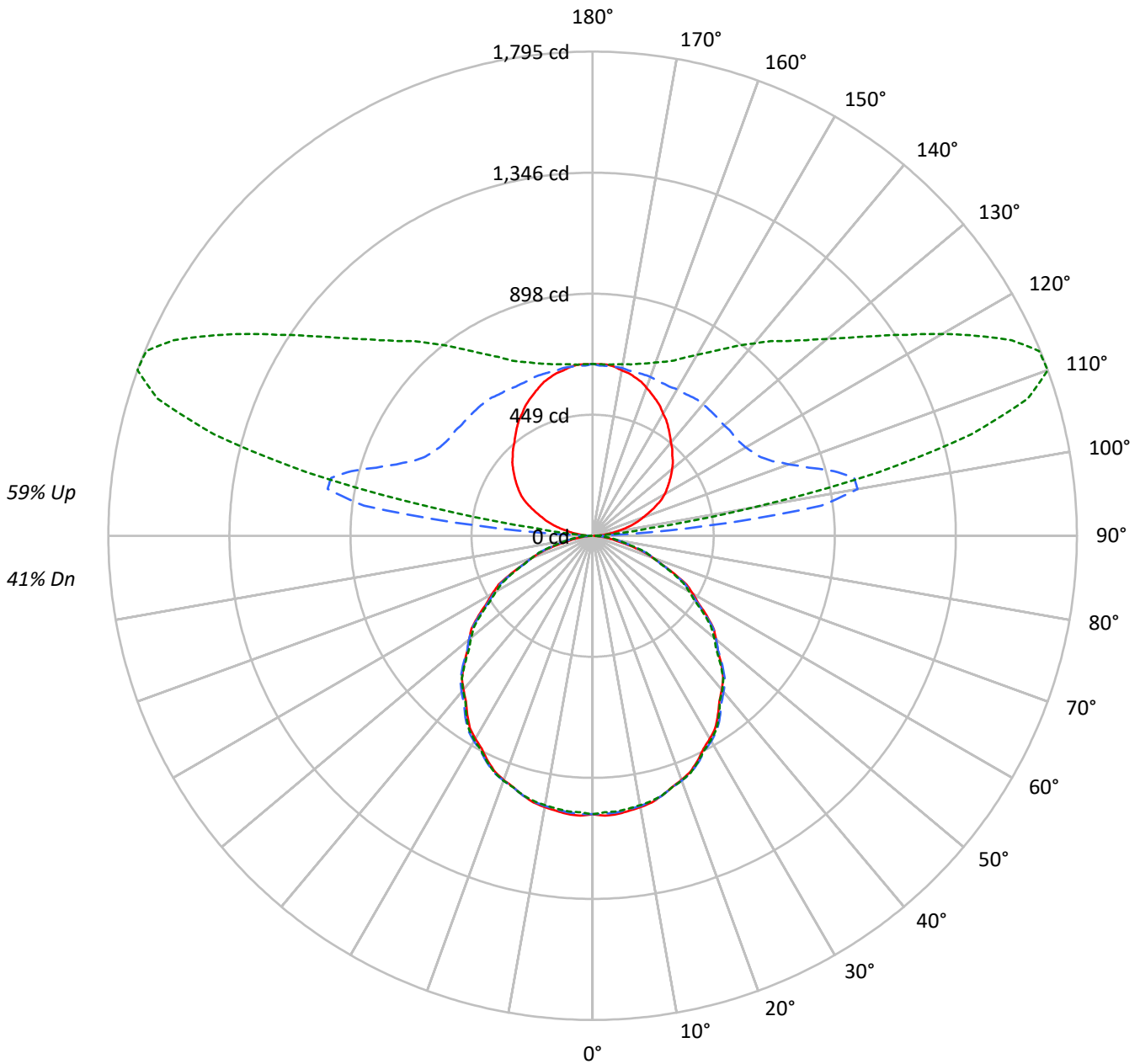
Lumens per Lamp: N/A
Luminaire Lumens: 6949.3 lumens
Efficiency: N/A
Efficacy: 116.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 59.6
Input Voltage (V): NR
Input Current (A_{in}): 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: 25 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									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	105	105	105	105	96	96	96	96	78	78	78	62	62	62	47	47	47	41																			
1	96	91	88	84	87	83	80	77	68	66	64	55	53	52	42	41	40	34																			
2	87	80	74	69	79	73	68	63	60	56	53	48	45	43	37	35	34	29																			
3	79	70	63	57	72	64	58	53	53	48	45	42	39	37	33	31	29	24																			
4	73	62	54	48	66	57	50	45	47	42	38	38	34	31	29	27	25	21																			
5	67	55	47	41	60	51	44	38	42	37	33	34	30	27	26	24	21	18																			
6	61	49	41	36	56	45	38	33	38	32	28	30	27	24	24	21	19	16																			
7	57	44	37	31	51	41	34	29	34	29	25	28	24	21	22	19	17	14																			
8	52	40	33	27	48	37	30	26	31	26	22	25	21	18	20	17	15	12																			
9	49	37	29	24	44	34	27	23	28	23	20	23	19	17	18	16	13	11																			
10	45	34	26	22	41	31	25	20	26	21	18	21	18	15	17	14	12	10																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9523	9523	9523
5°	9597	9534	9499
10°	9573	9528	9501
15°	9523	9523	9513
20°	9460	9487	9487
25°	9371	9438	9409
30°	9256	9368	9327
35°	9119	9258	9193
40°	8967	9094	9003
45°	8805	8867	8729
50°	8575	8575	8437
55°	8303	8194	8072
60°	7901	7743	7619
65°	7302	7156	7093
70°	6396	6444	6423
75°	5144	5689	5729
80°	3661	4824	4877
85°	2234	4054	4054



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.7	1.4
10°-20°	280.4	4.0
20°-30°	424.6	6.1
30°-40°	509.0	7.3
40°-50°	519.0	7.5
50°-60°	453.0	6.5
60°-70°	324.3	4.7
70°-80°	167.1	2.4
80°-90°	43.8	0.6
90°-100°	253.3	3.6
100°-110°	881.3	12.7
110°-120°	853.7	12.3
120°-130°	669.7	9.6
130°-140°	530.1	7.6
140°-150°	409.1	5.9
150°-160°	293.2	4.2
160°-170°	179.4	2.6
170°-180°	60.7	0.9
0°-30°	802.6	11.5
0°-40°	1311.6	18.9
0°-60°	2283.6	32.9
0°-90°	2818.8	40.6
90°-120°	1988.3	28.6
90°-150°	3597.1	51.8
90°-180°	4130.0	59.4
0°-180°	6949.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1032	1032	1032	1032	1032	
5°	1036	1026	1029	1026	1026	98
15°	997	988	997	997	996	281
25°	920	914	927	924	924	424
35°	810	808	822	816	816	506
45°	675	673	680	671	669	519
55°	516	510	509	502	502	460
65°	334	327	328	325	325	331
75°	144	151	160	161	161	156
85°	21	32	38	39	38	29
90°	10	14	14	10	5	7
95°	43	147	427	109	66	45
105°	147	209	926	1563	1453	155
115°	256	309	689	1453	1714	253
125°	347	427	641	1083	1292	310
135°	418	470	636	902	1021	324
145°	489	522	632	779	845	306
155°	556	575	622	693	717	256
165°	608	613	627	655	660	171
175°	636	636	632	641	636	60
180°	636	636	636	636	636	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1032.2	1032.2	1032.2	1032.2	1032.2
2.5°	1038.5	1029.4	1032.2	1029.9	1026.1
5°	1036.2	1025.7	1029.4	1026.4	1025.6
7.5°	1028.6	1018.4	1023.2	1021.1	1020.2
10°	1021.8	1011.4	1017.0	1015.1	1014.1
12.5°	1012.6	1003.0	1009.3	1007.5	1007.1
15°	997.0	988.5	997.0	997.0	996.0
17.5°	977.2	969.6	978.5	979.2	978.5
20°	963.5	955.1	966.3	965.4	966.3
22.5°	946.7	939.8	951.8	949.3	950.3
25°	920.5	913.9	927.1	924.3	924.3
27.5°	889.5	884.7	899.2	896.1	896.1
30°	868.8	864.2	879.3	875.5	875.5
32.5°	845.9	842.7	857.2	852.6	852.6
35°	809.6	807.6	822.0	816.2	816.2
37.5°	772.1	770.4	783.4	776.5	774.2
40°	744.5	743.7	755.1	747.5	747.5
42.5°	717.0	716.0	726.1	716.9	716.9
45°	674.8	672.9	679.6	670.9	669.0
47.5°	628.7	626.9	631.0	621.6	620.6
50°	597.4	595.5	597.4	588.7	587.8
52.5°	565.3	561.8	562.2	553.6	553.4
55°	516.2	509.6	509.4	501.8	501.8
57.5°	464.1	455.5	456.4	449.7	448.8
60°	428.2	418.8	419.6	413.8	412.9
62.5°	393.0	382.2	384.4	377.9	377.8
65°	334.5	327.0	327.8	324.9	324.9
67.5°	278.3	271.4	276.4	274.2	274.0
70°	237.1	232.3	238.9	238.9	238.1
72.5°	198.8	198.6	206.8	206.8	207.5
75°	144.3	150.9	159.6	160.7	160.7
77.5°	96.4	107.9	117.6	117.9	117.8
80°	68.9	81.9	90.8	92.8	91.8
82.5°	46.6	60.5	67.9	69.7	68.9
85°	21.1	32.3	38.3	39.2	38.3
87.5°	6.1	12.8	15.4	15.4	13.8
90°	9.5	14.3	14.3	9.5	4.8
92.5°	23.8	71.2	66.4	28.5	23.8
95°	42.8	147.3	427.4	109.2	66.4
97.5°	66.4	166.3	854.9	389.5	209.0
100°	90.2	175.8	997.4	935.6	603.2
102.5°	118.7	189.9	992.7	1315.6	1082.9
105°	147.3	209.0	926.1	1562.6	1453.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	228.0	280.3	721.9	1572.1	1790.6
115°	256.5	308.7	688.7	1453.4	1714.5
117.5°	285.0	342.0	669.6	1344.2	1605.3
120°	308.7	370.5	655.4	1239.6	1496.1
122.5°	327.7	399.0	646.0	1154.1	1386.8
125°	346.7	427.4	641.2	1082.9	1291.9
127.5°	365.7	446.4	641.2	1030.6	1206.4
130°	384.7	455.9	636.5	978.4	1135.1
132.5°	403.8	460.7	636.5	940.4	1073.4
135°	417.9	470.2	636.5	902.4	1021.1
137.5°	436.9	479.7	636.5	869.2	978.4
140°	451.2	494.0	636.5	835.9	930.9
142.5°	470.2	508.2	636.5	802.6	888.1
145°	489.2	522.5	631.7	778.9	845.4
147.5°	508.2	536.6	627.0	755.2	807.4
150°	522.5	550.9	627.0	731.4	774.1
152.5°	541.4	565.2	622.2	707.7	745.7
155°	555.7	574.7	622.2	693.4	717.2
157.5°	569.9	588.9	622.2	679.2	698.2
160°	584.2	598.4	627.0	669.6	683.9
162.5°	598.4	608.0	627.0	660.1	669.6
165°	608.0	612.7	627.0	655.4	660.1
167.5°	617.5	622.2	627.0	650.6	650.6
170°	622.2	627.0	631.7	646.0	646.0
172.5°	631.7	631.7	631.7	641.2	641.2
175°	636.5	636.5	631.7	641.2	636.5
177.5°	636.5	636.5	631.7	641.2	636.5
180°	636.5	636.5	636.5	636.5	636.5



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







107.5°	175.8	232.7	840.7	1671.8	1690.9
110°	199.4	256.5	774.1	1657.6	1795.3



(END OF REPORT)