

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: P845089

Luminaire Tested: **SQ4P-PP3-075U-075D-B50-1D-UNV**

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P845089
REPORT IS A COMBINATION OF REPORTS P700228 AND P700245
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-PP3-075U-075D-B50-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 750 LUMENS PER FOOT UPLIGHT, 750 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

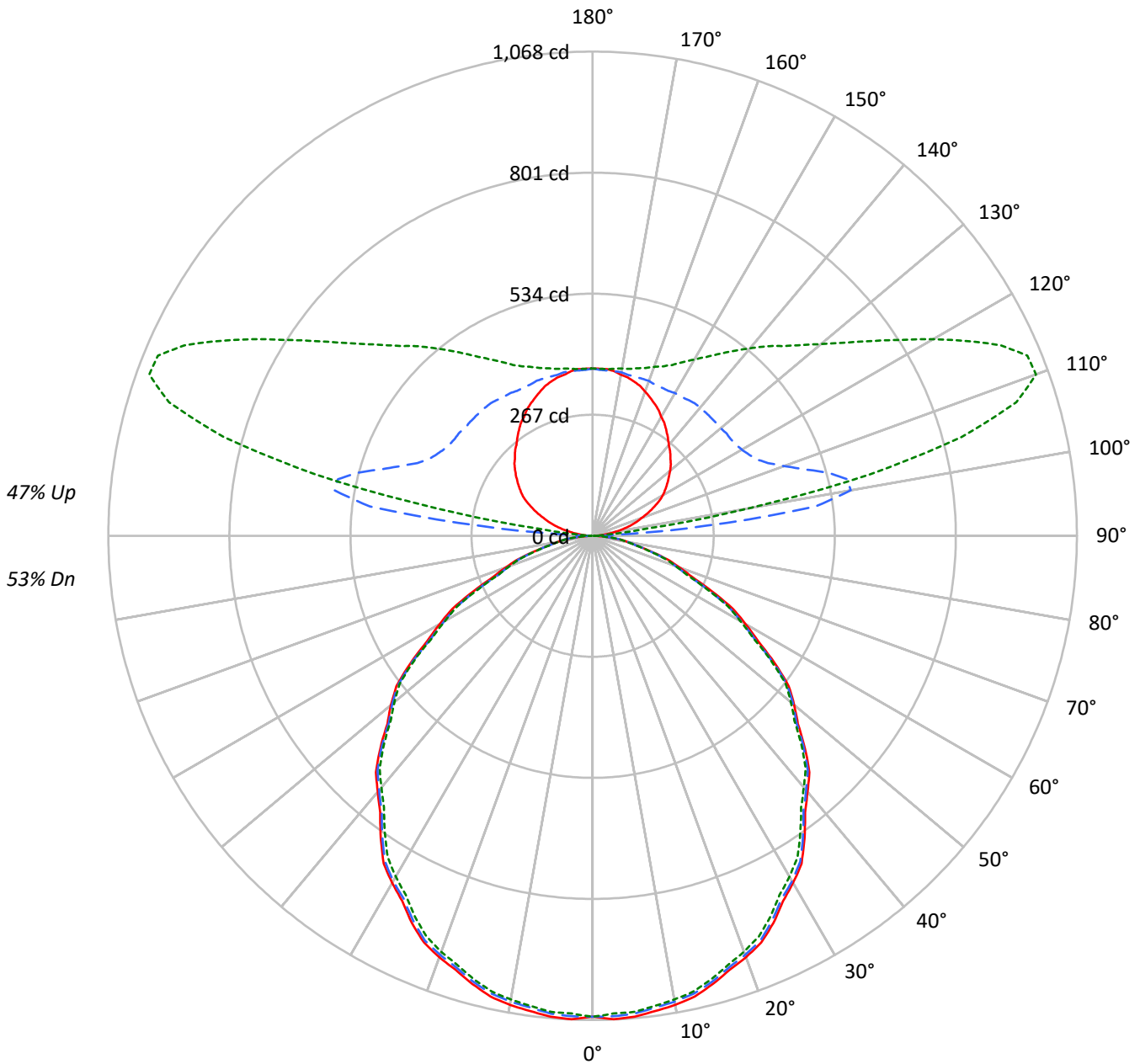
Lumens per Lamp: N/A
Luminaire Lumens: 5109.8 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 44.6
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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	59	59	59	53				53															
1	99	94	91	87	91	88	84	81	75	73	70	63	62	60	53	51	50	45				45															
2	90	83	77	72	83	77	72	67	66	62	59	56	53	50	46	44	43	38				38															
3	82	73	66	60	76	68	61	56	58	53	49	49	46	43	41	39	36	33				33															
4	75	65	57	51	69	60	53	48	52	46	42	44	40	37	37	34	32	28				28															
5	69	58	49	43	64	54	47	41	46	41	36	40	35	32	33	30	28	24				24															
6	64	52	44	38	59	48	41	36	42	36	32	36	31	28	30	27	24	21				21															
7	59	47	39	33	54	44	37	31	38	32	28	33	28	25	28	24	22	19				19															
8	55	42	35	29	51	40	33	28	35	29	25	30	25	22	25	22	19	17				17															
9	51	39	31	26	47	36	30	25	32	26	22	27	23	20	23	20	17	15				15															
10	48	36	28	23	44	33	27	22	29	24	20	25	21	18	22	18	16	14				14															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9788	9788	9788
5°	9860	9799	9764
10°	9844	9773	9730
15°	9778	9725	9671
20°	9712	9657	9585
25°	9598	9532	9438
30°	9420	9371	9250
35°	9174	9111	8996
40°	8879	8823	8723
45°	8638	8578	8492
50°	8328	8275	8193
55°	7896	7793	7734
60°	7189	6984	6947
65°	6335	6069	6047
70°	5465	5241	5241
75°	4705	4638	4570
80°	4150	4197	4096
85°	3250	3546	3546



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.3	2.0
10°-20°	286.4	5.6
20°-30°	429.0	8.4
30°-40°	503.2	9.8
40°-50°	504.8	9.9
50°-60°	430.7	8.4
60°-70°	280.9	5.5
70°-80°	140.9	2.8
80°-90°	39.9	0.8
90°-100°	146.8	2.9
100°-110°	510.8	10.0
110°-120°	494.8	9.7
120°-130°	388.1	7.6
130°-140°	307.2	6.0
140°-150°	237.1	4.6
150°-160°	169.9	3.3
160°-170°	103.9	2.0
170°-180°	35.2	0.7
0°-30°	815.8	16.0
0°-40°	1319.0	25.8
0°-60°	2254.5	44.1
0°-90°	2716.1	53.2
90°-120°	1152.3	22.6
90°-150°	2084.7	40.8
90°-180°	2394.0	46.9
0°-180°	5109.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1061	1061	1061	1061	1061	
5°	1065	1055	1058	1054	1054	101
15°	1024	1014	1018	1014	1012	289
25°	943	932	936	928	927	434
35°	814	806	809	800	799	509
45°	662	657	657	651	651	510
55°	491	489	484	482	481	436
65°	290	285	278	276	277	290
75°	132	132	130	129	128	143
85°	31	33	34	34	34	36
90°	6	8	8	6	3	5
95°	25	85	248	63	39	26
105°	85	121	537	906	842	90
115°	149	179	399	842	994	147
125°	201	248	372	628	749	180
135°	242	272	369	523	592	188
145°	284	303	366	452	490	177
155°	322	333	360	402	416	148
165°	352	355	363	380	383	99
175°	369	369	366	372	369	35
180°	369	369	369	369	369	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1060.9	1060.9	1060.9	1060.9	1060.9
2.5°	1067.5	1058.8	1060.9	1059.3	1054.9
5°	1064.6	1054.7	1058.0	1054.3	1054.3
7.5°	1057.3	1046.5	1049.8	1046.2	1046.0
10°	1050.7	1039.7	1043.2	1039.4	1038.6
12.5°	1041.0	1030.1	1034.3	1029.8	1029.6
15°	1023.7	1013.6	1018.1	1014.3	1012.5
17.5°	1004.1	993.2	998.6	993.4	992.6
20°	989.2	978.3	983.6	976.2	976.2
22.5°	971.4	960.5	966.6	956.9	956.9
25°	942.8	931.8	936.3	927.8	927.1
27.5°	908.8	898.0	902.7	893.1	892.9
30°	884.2	874.1	879.6	869.3	868.3
32.5°	857.5	848.2	852.1	841.8	840.8
35°	814.5	806.4	808.9	799.6	798.7
37.5°	769.3	761.0	763.8	755.8	755.5
40°	737.2	731.8	732.6	726.0	724.3
42.5°	707.5	701.4	702.1	695.5	695.3
45°	662.0	657.4	657.4	650.8	650.8
47.5°	613.7	610.2	609.2	603.7	603.6
50°	580.2	577.4	576.5	571.8	570.8
52.5°	545.2	543.9	540.8	536.8	536.7
55°	490.9	489.1	484.5	481.5	480.8
57.5°	432.0	428.3	423.1	419.1	419.7
60°	389.6	385.9	378.5	376.5	376.5
62.5°	348.6	344.3	336.8	334.3	335.7
65°	290.2	284.7	278.0	276.2	277.0
67.5°	237.0	231.9	224.8	224.8	224.1
70°	202.6	199.9	194.3	194.3	194.3
72.5°	172.1	170.9	166.9	166.7	166.0
75°	132.0	132.0	130.1	129.2	128.2
77.5°	98.9	99.2	98.4	97.5	95.7
80°	78.1	80.0	79.0	78.1	77.1
82.5°	58.8	60.5	60.5	58.8	58.5
85°	30.7	33.3	33.5	33.5	33.5
87.5°	8.2	11.0	11.9	11.9	12.7
90°	5.5	8.3	8.3	5.5	2.8
92.5°	13.8	41.3	38.6	16.5	13.8
95°	24.8	85.3	247.7	63.3	38.6
97.5°	38.6	96.3	495.4	225.7	121.1
100°	52.3	101.9	578.0	542.3	349.6
102.5°	68.8	110.1	575.3	762.5	627.6
105°	85.3	121.1	536.8	905.6	842.3



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CATALOG NUMBER: SQ4P-PP3-075U-075D-B50-1D-UNV

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	132.1	162.4	418.4	911.1	1037.7
115°	148.6	178.9	399.1	842.3	993.6
117.5°	165.2	198.2	388.1	778.9	930.3
120°	178.9	214.7	379.9	718.4	867.0
122.5°	189.9	231.2	374.3	668.9	803.7
125°	201.0	247.7	371.6	627.6	748.7
127.5°	211.9	258.8	371.6	597.3	699.2
130°	223.0	264.3	368.8	567.0	657.8
132.5°	233.9	266.9	368.8	545.0	622.1
135°	242.2	272.5	368.8	522.9	591.8
137.5°	253.2	278.0	368.8	503.7	567.0
140°	261.5	286.3	368.8	484.4	539.5
142.5°	272.5	294.6	368.8	465.2	514.7
145°	283.5	302.7	366.1	451.5	489.9
147.5°	294.6	311.0	363.3	437.6	467.9
150°	302.7	319.3	363.3	423.8	448.7
152.5°	313.8	327.5	360.5	410.1	432.1
155°	322.1	333.0	360.5	401.8	415.7
157.5°	330.3	341.3	360.5	393.6	404.6
160°	338.5	346.8	363.3	388.1	396.3
162.5°	346.8	352.3	363.3	382.6	388.1
165°	352.3	355.1	363.3	379.9	382.6
167.5°	357.9	360.5	363.3	377.1	377.1
170°	360.5	363.3	366.1	374.3	374.3
172.5°	366.1	366.1	366.1	371.6	371.6
175°	368.8	368.8	366.1	371.6	368.8
177.5°	368.8	368.8	366.1	371.6	368.8
180°	368.8	368.8	368.8	368.8	368.8



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	101.9	134.9	487.2	968.9	979.9
110°	115.6	148.6	448.7	960.6	1040.5



(END OF REPORT)