

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: P845065

Luminaire Tested: **SQ4P-PP3-025U-075D-B50-1D-UNV**

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-08
Report Number: P845065
REPORT IS A COMBINATION OF REPORTS P700172 AND P700243
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-PP3-025U-075D-B50-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 250 LUMENS PER FOOT
UPLIGHT, 750 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

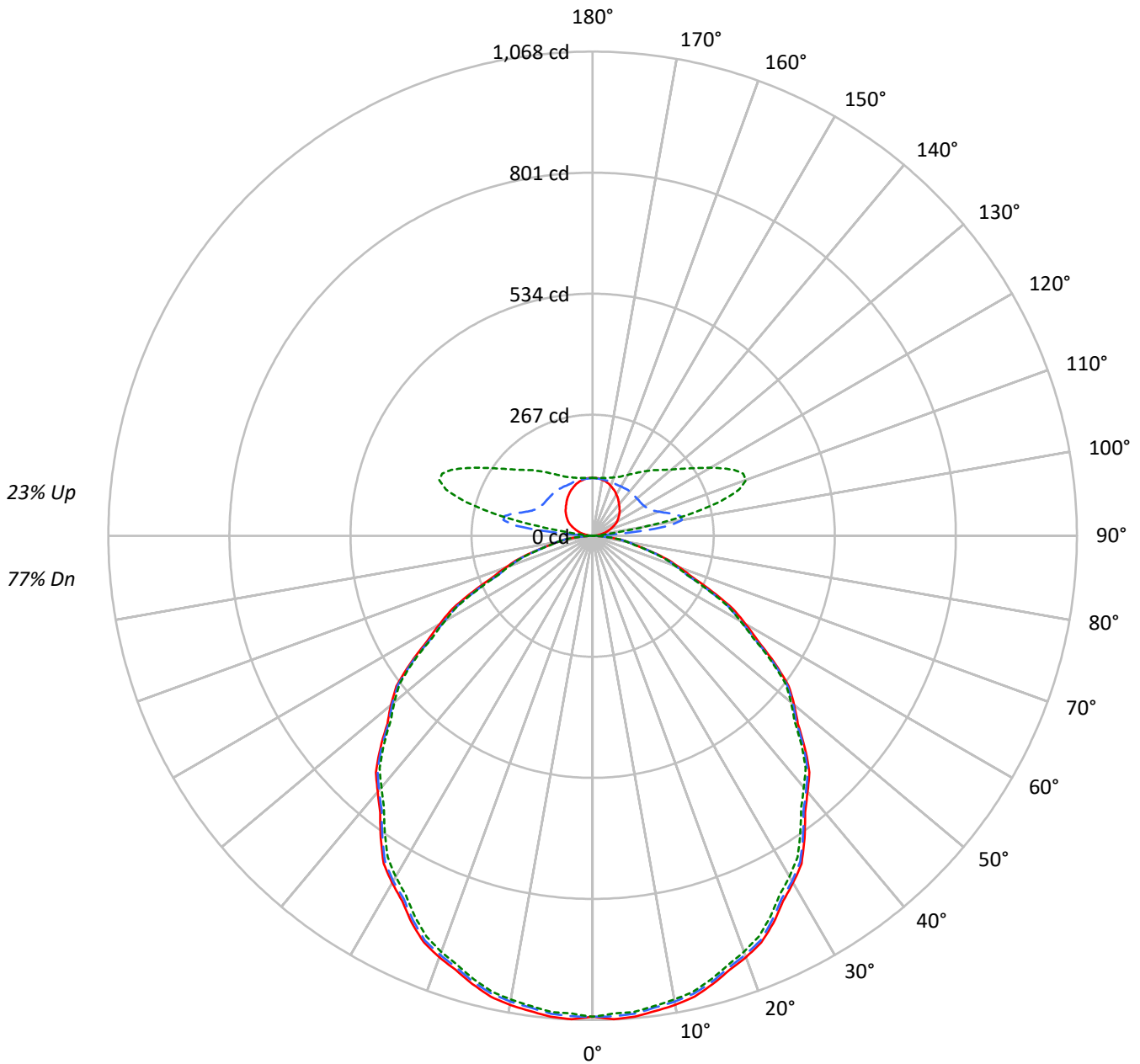
Lumens per Lamp: N/A
Luminaire Lumens: 3543.5 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 32.6
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				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	113	113	113	113	108	108	108	108	98	98	98	89	89	89	81	81	81	77				77
1	104	100	96	92	99	95	92	89	87	84	82	79	77	75	72	70	69	65				65
2	95	87	81	76	90	84	78	73	76	72	68	70	66	63	64	61	58	55				55
3	87	77	70	64	83	74	67	62	68	62	58	62	57	54	56	53	50	47				47
4	80	68	60	54	76	66	58	52	60	54	49	55	50	46	51	47	43	40				40
5	73	61	53	47	70	59	51	45	54	48	43	50	44	40	46	41	38	35				35
6	68	55	47	41	64	53	45	40	49	42	37	45	40	35	41	37	33	31				31
7	63	50	42	36	60	48	40	35	44	38	33	41	36	31	38	33	30	27				27
8	58	46	37	32	55	44	36	31	41	34	30	38	32	28	35	30	27	25				25
9	54	42	34	29	52	40	33	28	37	31	27	35	29	25	32	27	24	22				22
10	51	38	31	26	49	37	30	25	35	28	24	32	27	23	30	25	22	20				20

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	2.8
10°-20°	286.4	8.1
20°-30°	429.0	12.1
30°-40°	503.2	14.2
40°-50°	504.8	14.2
50°-60°	430.7	12.2
60°-70°	280.9	7.9
70°-80°	140.9	4.0
80°-90°	39.3	1.1
90°-100°	50.8	1.4
100°-110°	176.7	5.0
110°-120°	171.2	4.8
120°-130°	134.2	3.8
130°-140°	106.3	3.0
140°-150°	82.0	2.3
150°-160°	58.8	1.7
160°-170°	36.0	1.0
170°-180°	12.2	0.3
0°-30°	815.8	23.0
0°-40°	1319.0	37.2
0°-60°	2254.5	63.6
0°-90°	2715.5	76.6
90°-120°	398.6	11.2
90°-150°	721.1	20.4
90°-180°	828.0	23.4
0°-180°	3543.5	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°	2	3	3	2	1	2
95°	9	30	86	22	13	9
105°	30	42	186	313	291	31
115°	51	62	138	291	344	51
125°	70	86	128	217	259	62
135°	84	94	128	181	205	65
145°	98	105	127	156	170	61
155°	111	115	125	139	144	51
165°	122	123	126	131	132	34
175°	128	128	127	128	128	12
180°	128	128	128	128	128	



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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°	1.9	2.9	2.9	1.9	1.0
92.5°	4.8	14.3	13.3	5.7	4.8
95°	8.6	29.5	85.7	21.9	13.3
97.5°	13.3	33.3	171.4	78.1	41.9
100°	18.1	35.2	199.9	187.5	120.9
102.5°	23.8	38.1	199.0	263.7	217.1
105°	29.5	41.9	185.6	313.3	291.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	45.7	56.2	144.7	315.2	359.0
115°	51.4	61.9	138.0	291.4	343.8
117.5°	57.1	68.5	134.2	269.4	321.9
120°	61.9	74.3	131.4	248.5	300.0
122.5°	65.7	80.0	129.5	231.3	278.1
125°	69.5	85.7	128.5	217.1	259.0
127.5°	73.3	89.5	128.5	206.6	241.8
130°	77.1	91.4	127.6	196.1	227.5
132.5°	80.9	92.3	127.6	188.5	215.2
135°	83.8	94.3	127.6	180.9	204.7
137.5°	87.6	96.2	127.6	174.2	196.1
140°	90.4	99.0	127.6	167.6	186.6
142.5°	94.3	101.9	127.6	160.9	178.0
145°	98.1	104.7	126.6	156.1	169.5
147.5°	101.9	107.6	125.7	151.4	161.8
150°	104.7	110.4	125.7	146.6	155.2
152.5°	108.5	113.3	124.7	141.9	149.5
155°	111.4	115.2	124.7	139.0	143.8
157.5°	114.2	118.1	124.7	136.1	139.9
160°	117.1	120.0	125.7	134.2	137.1
162.5°	120.0	121.9	125.7	132.3	134.2
165°	121.9	122.8	125.7	131.4	132.3
167.5°	123.8	124.7	125.7	130.4	130.4
170°	124.7	125.7	126.6	129.5	129.5
172.5°	126.6	126.6	126.6	128.5	128.5
175°	127.6	127.6	126.6	128.5	127.6
177.5°	127.6	127.6	126.6	128.5	127.6
180°	127.6	127.6	127.6	127.6	127.6



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	35.2	46.6	168.5	335.2	339.0
110°	40.0	51.4	155.2	332.4	360.0



(END OF REPORT)