

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: P845063

Luminaire Tested: **SQ4P-PP3-025U-075D-B35-1D-UNV**

Issue Date: 8/14/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P845063  
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-B35-1D-UNV  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 250 LUMENS PER FOOT  
UPLIGHT, 750 LUMENS PER FOOT DOWNLIGHT  
  
Light Source: -  
Ballast/Driver: -

**Summary**

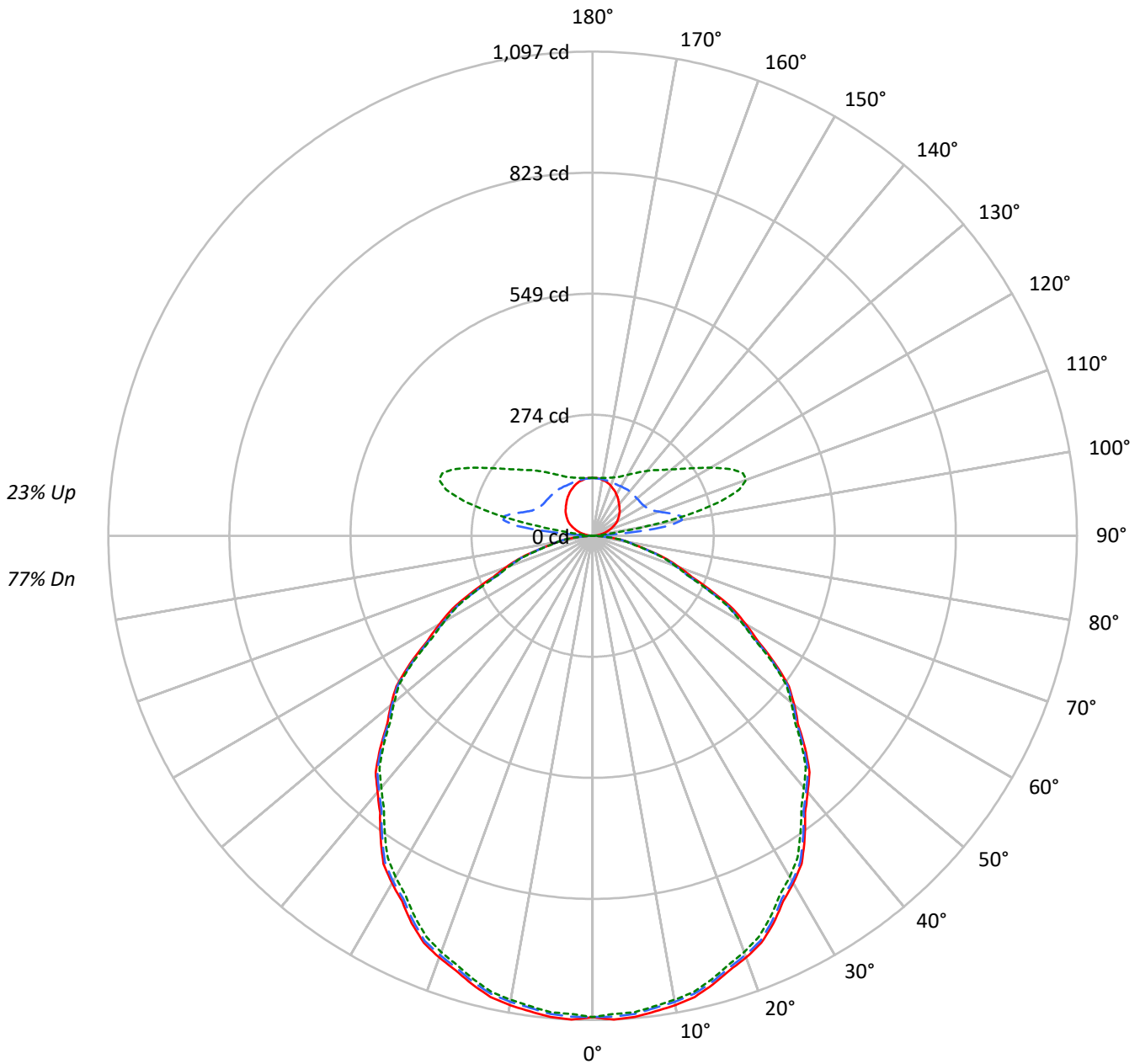
Lumens per Lamp: N/A  
Luminaire Lumens: 3642.2 lumens  
Efficiency: N/A  
Efficacy: 111.7 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

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

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	10061	10061	10061
5°	10134	10072	10037
10°	10117	10046	10001
15°	10051	9996	9940
20°	9983	9927	9852
25°	9865	9797	9701
30°	9683	9632	9509
35°	9429	9365	9246
40°	9127	9069	8967
45°	8879	8816	8728
50°	8559	8504	8421
55°	8115	8011	7949
60°	7388	7180	7141
65°	6512	6237	6217
70°	5616	5387	5387
75°	4837	4770	4698
80°	4261	4314	4213
85°	3335	3642	3642



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	103.1	2.8
10°-20°	294.4	8.1
20°-30°	441.0	12.1
30°-40°	517.3	14.2
40°-50°	518.9	14.2
50°-60°	442.7	12.2
60°-70°	288.7	7.9
70°-80°	144.8	4.0
80°-90°	40.4	1.1
90°-100°	52.2	1.4
100°-110°	181.6	5.0
110°-120°	175.9	4.8
120°-130°	138.0	3.8
130°-140°	109.2	3.0
140°-150°	84.3	2.3
150°-160°	60.4	1.7
160°-170°	37.0	1.0
170°-180°	12.5	0.3
0°-30°	838.5	23.0
0°-40°	1355.8	37.2
0°-60°	2317.3	63.6
0°-90°	2791.2	76.6
90°-120°	409.7	11.2
90°-150°	741.2	20.3
90°-180°	851.0	23.4
0°-180°	3642.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1090	1090	1090	1090	1090	
5°	1094	1084	1088	1084	1084	104
15°	1052	1042	1046	1043	1041	297
25°	969	958	962	954	953	446
35°	837	829	832	822	821	523
45°	680	676	676	669	669	524
55°	504	503	498	495	494	448
65°	298	293	286	284	285	298
75°	136	136	134	133	132	147
85°	32	34	34	34	34	37
90°	2	3	3	2	1	2
95°	9	30	88	22	14	9
105°	30	43	191	322	300	32
115°	53	64	142	300	353	52
125°	71	88	132	223	266	64
135°	86	97	131	186	210	67
145°	101	108	130	160	174	63
155°	114	118	128	143	148	53
165°	125	126	129	135	136	35
175°	131	131	130	132	131	12
180°	131	131	131	131	131	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1090.5	1090.5	1090.5	1090.5	1090.5
2.5°	1097.3	1088.4	1090.5	1088.9	1084.3
5°	1094.2	1084.1	1087.5	1083.7	1083.7
7.5°	1086.8	1075.6	1079.1	1075.3	1075.2
10°	1079.9	1068.7	1072.3	1068.4	1067.5
12.5°	1070.1	1058.8	1063.1	1058.5	1058.3
15°	1052.3	1041.9	1046.5	1042.6	1040.7
17.5°	1032.1	1020.9	1026.4	1021.1	1020.3
20°	1016.8	1005.6	1011.1	1003.4	1003.4
22.5°	998.5	987.3	993.5	983.6	983.6
25°	969.1	957.8	962.4	953.7	952.9
27.5°	934.1	923.1	927.9	918.0	917.8
30°	908.9	898.5	904.1	893.5	892.6
32.5°	881.4	871.8	875.8	865.2	864.3
35°	837.2	828.8	831.5	821.9	820.9
37.5°	790.8	782.2	785.1	776.9	776.6
40°	757.8	752.2	753.0	746.3	744.5
42.5°	727.3	720.9	721.7	714.9	714.6
45°	680.5	675.7	675.7	668.9	668.9
47.5°	630.8	627.2	626.2	620.5	620.4
50°	596.3	593.5	592.5	587.7	586.7
52.5°	560.4	559.1	555.8	551.8	551.6
55°	504.5	502.7	498.0	495.0	494.2
57.5°	444.1	440.3	434.9	430.8	431.4
60°	400.4	396.6	389.1	387.0	387.0
62.5°	358.4	353.9	346.2	343.6	345.0
65°	298.3	292.6	285.7	283.9	284.8
67.5°	243.6	238.4	231.0	231.0	230.4
70°	208.2	205.5	199.7	199.7	199.7
72.5°	176.9	175.7	171.5	171.3	170.7
75°	135.7	135.7	133.8	132.8	131.8
77.5°	101.7	102.0	101.2	100.2	98.3
80°	80.2	82.2	81.2	80.2	79.3
82.5°	60.5	62.2	62.1	60.5	60.2
85°	31.5	34.2	34.4	34.4	34.4
87.5°	8.4	11.4	12.2	12.2	13.0
90°	2.0	2.9	2.9	2.0	1.0
92.5°	4.9	14.7	13.7	5.9	4.9
95°	8.8	30.3	88.1	22.5	13.7
97.5°	13.7	34.2	176.1	80.2	43.1
100°	18.6	36.2	205.5	192.8	124.3
102.5°	24.5	39.1	204.5	271.1	223.1
105°	30.3	43.1	190.8	322.0	299.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	47.0	57.7	148.7	324.0	369.0
115°	52.8	63.6	141.9	299.5	353.4
117.5°	58.7	70.5	138.0	276.9	330.9
120°	63.6	76.3	135.0	255.4	308.3
122.5°	67.5	82.2	133.1	237.8	285.8
125°	71.4	88.1	132.1	223.1	266.2
127.5°	75.3	92.0	132.1	212.3	248.6
130°	79.3	93.9	131.1	201.6	233.9
132.5°	83.2	94.9	131.1	193.8	221.2
135°	86.1	96.9	131.1	185.9	210.4
137.5°	90.0	98.8	131.1	179.1	201.6
140°	93.0	101.8	131.1	172.2	191.8
142.5°	96.9	104.7	131.1	165.4	183.0
145°	100.8	107.6	130.1	160.5	174.2
147.5°	104.7	110.6	129.2	155.6	166.4
150°	107.6	113.5	129.2	150.7	159.5
152.5°	111.6	116.4	128.2	145.8	153.6
155°	114.5	118.4	128.2	142.9	147.8
157.5°	117.4	121.3	128.2	139.9	143.8
160°	120.4	123.3	129.2	138.0	140.9
162.5°	123.3	125.3	129.2	136.0	138.0
165°	125.3	126.2	129.2	135.0	136.0
167.5°	127.2	128.2	129.2	134.1	134.1
170°	128.2	129.2	130.1	133.1	133.1
172.5°	130.1	130.1	130.1	132.1	132.1
175°	131.1	131.1	130.1	132.1	131.1
177.5°	131.1	131.1	130.1	132.1	131.1
180°	131.1	131.1	131.1	131.1	131.1



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	36.2	47.9	173.2	344.6	348.5
110°	41.1	52.8	159.5	341.6	370.0



(END OF REPORT)