

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: P844980

Luminaire Tested: **SQ4P-PC3-025U-075D-B40-1D-UNV**

Issue Date: 8/14/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P844980  
REPORT IS A COMBINATION OF REPORTS P700168 AND P700243  
Test Lab: INNOVATION CENTER  
Issue Date: 8/14/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4P-PC3-025U-075D-B40-1D-UNV  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 250 LUMENS PER FOOT UPLIGHT, 750 LUMENS PER FOOT DOWNLIGHT  
  
Light Source: -  
Ballast/Driver: -

**Summary**

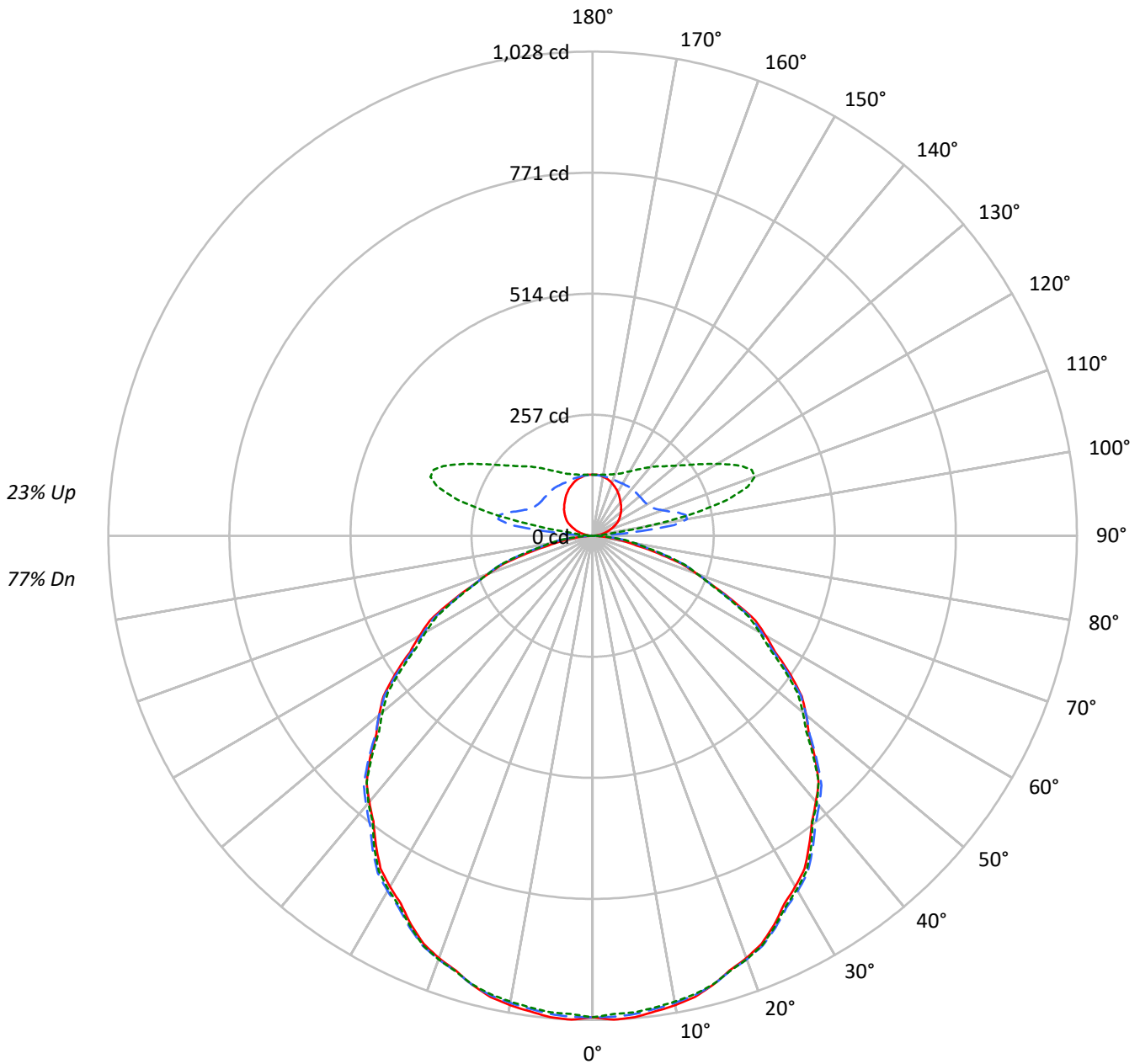
Lumens per Lamp: N/A  
Luminaire Lumens: 3633.0 lumens  
Efficiency: N/A  
Efficacy: 111.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

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					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	114	114	114	114	108	108	108	108	98	98	98	89	89	89	81	81	81	77								
1	104	99	95	92	99	95	91	88	86	84	81	79	77	75	72	70	68	65								
2	95	87	80	75	90	83	77	72	76	71	67	69	66	62	63	60	58	54								
3	86	76	69	63	82	73	66	61	67	61	57	61	57	53	56	52	49	46								
4	79	68	59	53	75	65	57	51	59	53	48	54	49	45	50	46	42	39								
5	73	60	52	46	69	58	50	44	53	47	42	49	43	39	45	40	37	34								
6	67	54	46	40	64	52	44	39	48	41	36	44	39	34	41	36	32	30								
7	62	49	41	35	59	47	40	34	44	37	32	40	35	30	37	32	29	26								
8	58	45	37	31	55	43	36	30	40	33	29	37	31	27	34	29	26	24								
9	54	41	33	28	51	39	32	27	37	30	26	34	28	25	31	27	23	21								
10	50	38	30	25	48	36	29	25	34	28	23	31	26	22	29	24	21	19								

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

	0°	45°	90°
0°	9431	9431	9431
5°	9503	9441	9407
10°	9480	9435	9408
15°	9430	9430	9421
20°	9368	9395	9395
25°	9280	9346	9318
30°	9165	9277	9237
35°	9030	9168	9104
40°	8880	9005	8916
45°	8720	8781	8644
50°	8491	8491	8355
55°	8223	8115	7993
60°	7826	7667	7543
65°	7230	7086	7023
70°	6334	6380	6361
75°	5094	5636	5671
80°	3624	4777	4830
85°	2212	4012	4012



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.7	2.7
10°-20°	277.6	7.6
20°-30°	420.4	11.6
30°-40°	504.1	13.9
40°-50°	513.9	14.1
50°-60°	448.6	12.3
60°-70°	321.2	8.8
70°-80°	165.5	4.6
80°-90°	42.2	1.2
90°-100°	51.7	1.4
100°-110°	179.8	5.0
110°-120°	174.2	4.8
120°-130°	136.6	3.8
130°-140°	108.2	3.0
140°-150°	83.5	2.3
150°-160°	59.8	1.6
160°-170°	36.6	1.0
170°-180°	12.4	0.3
0°-30°	794.8	21.9
0°-40°	1298.9	35.8
0°-60°	2261.4	62.2
0°-90°	2790.2	76.8
90°-120°	405.7	11.2
90°-150°	734.0	20.2
90°-180°	843.0	23.2
0°-180°	3633.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1022	1022	1022	1022	1022	
5°	1026	1016	1019	1016	1016	97
15°	987	979	987	987	986	278
25°	912	905	918	915	915	420
35°	802	800	814	808	808	501
45°	668	666	673	664	662	514
55°	511	505	504	497	497	456
65°	331	324	325	322	322	328
75°	143	149	158	159	159	154
85°	21	32	38	39	38	28
90°	2	3	3	2	1	2
95°	9	30	87	22	14	9
105°	30	43	189	319	297	32
115°	52	63	140	297	350	52
125°	71	87	131	221	264	63
135°	85	96	130	184	208	66
145°	100	107	129	159	172	62
155°	113	117	127	142	146	52
165°	124	125	128	134	135	35
175°	130	130	129	131	130	12
180°	130	130	130	130	130	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1022.2	1022.2	1022.2	1022.2	1022.2
2.5°	1028.4	1019.4	1022.2	1019.9	1016.2
5°	1026.1	1015.8	1019.4	1016.5	1015.7
7.5°	1018.6	1008.5	1013.3	1011.2	1010.2
10°	1011.9	1001.6	1007.1	1005.2	1004.2
12.5°	1002.8	993.3	999.5	997.7	997.4
15°	987.3	978.9	987.3	987.3	986.3
17.5°	967.7	960.1	969.0	969.6	969.0
20°	954.1	945.8	956.9	956.0	956.9
22.5°	937.5	930.7	942.5	940.1	941.1
25°	911.6	905.0	918.1	915.3	915.3
27.5°	880.9	876.1	890.5	887.4	887.4
30°	860.3	855.8	870.8	867.0	867.0
32.5°	837.7	834.6	848.9	844.3	844.3
35°	801.7	799.8	814.0	808.3	808.3
37.5°	764.6	762.9	775.8	769.0	766.7
40°	737.3	736.5	747.7	740.3	740.3
42.5°	710.0	709.1	719.0	709.9	709.9
45°	668.3	666.3	673.0	664.4	662.5
47.5°	622.6	620.8	624.9	615.5	614.6
50°	591.6	589.7	591.6	583.0	582.1
52.5°	559.8	556.3	556.7	548.2	548.0
55°	511.2	504.7	504.5	496.9	496.9
57.5°	459.6	451.1	452.0	445.4	444.4
60°	424.1	414.8	415.5	409.8	408.8
62.5°	389.2	378.5	380.6	374.3	374.2
65°	331.2	323.9	324.6	321.7	321.7
67.5°	275.6	268.7	273.8	271.5	271.3
70°	234.8	230.1	236.5	236.5	235.8
72.5°	196.9	196.7	204.8	204.8	205.4
75°	142.9	149.4	158.1	159.1	159.1
77.5°	95.5	106.9	116.5	116.8	116.7
80°	68.2	81.1	89.9	91.9	90.9
82.5°	46.1	59.9	67.3	69.0	68.2
85°	20.9	32.0	37.9	38.9	37.9
87.5°	6.0	12.7	15.2	15.2	13.7
90°	1.9	2.9	2.9	1.9	1.0
92.5°	4.8	14.5	13.6	5.8	4.8
95°	8.7	30.0	87.2	22.3	13.6
97.5°	13.6	33.9	174.4	79.5	42.6
100°	18.4	35.9	203.5	190.9	123.1
102.5°	24.2	38.8	202.5	268.4	220.9
105°	30.0	42.6	189.0	318.9	296.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	46.5	57.2	147.3	320.9	365.4
115°	52.3	63.0	140.5	296.6	349.9
117.5°	58.1	69.8	136.6	274.2	327.6
120°	63.0	75.6	133.7	252.9	305.4
122.5°	66.9	81.4	131.8	235.5	283.1
125°	70.7	87.2	130.8	220.9	263.6
127.5°	74.6	91.1	130.8	210.3	246.1
130°	78.5	93.0	129.9	199.6	231.6
132.5°	82.4	94.0	129.9	191.9	219.0
135°	85.3	95.9	129.9	184.1	208.3
137.5°	89.2	97.9	129.9	177.3	199.6
140°	92.1	100.8	129.9	170.6	189.9
142.5°	95.9	103.7	129.9	163.8	181.2
145°	99.8	106.6	128.9	158.9	172.5
147.5°	103.7	109.5	127.9	154.1	164.7
150°	106.6	112.4	127.9	149.2	158.0
152.5°	110.5	115.3	126.9	144.4	152.1
155°	113.4	117.3	126.9	141.5	146.3
157.5°	116.3	120.2	126.9	138.6	142.5
160°	119.2	122.1	127.9	136.6	139.5
162.5°	122.1	124.0	127.9	134.7	136.6
165°	124.0	125.0	127.9	133.7	134.7
167.5°	126.0	126.9	127.9	132.8	132.8
170°	126.9	127.9	128.9	131.8	131.8
172.5°	128.9	128.9	128.9	130.8	130.8
175°	129.9	129.9	128.9	130.8	129.9
177.5°	129.9	129.9	128.9	130.8	129.9
180°	129.9	129.9	129.9	129.9	129.9



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	35.9	47.5	171.5	341.2	345.1
110°	40.7	52.3	158.0	338.3	366.4



(END OF REPORT)