

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: P844898

Luminaire Tested: **SQ4P-F-025U-100D-B35-1D-UNV**

Issue Date: 8/14/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P844898  
REPORT IS A COMBINATION OF REPORTS P700165 AND P700243  
Test Lab: INNOVATION CENTER  
Issue Date: 8/14/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4P-F-025U-100D-B35-1D-UNV  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 250 LUMENS PER FOOT UPLIGHT, 1000 LUMENS PER FOOT DOWNLIGHT  
  
Light Source: -  
Ballast/Driver: -

**Summary**

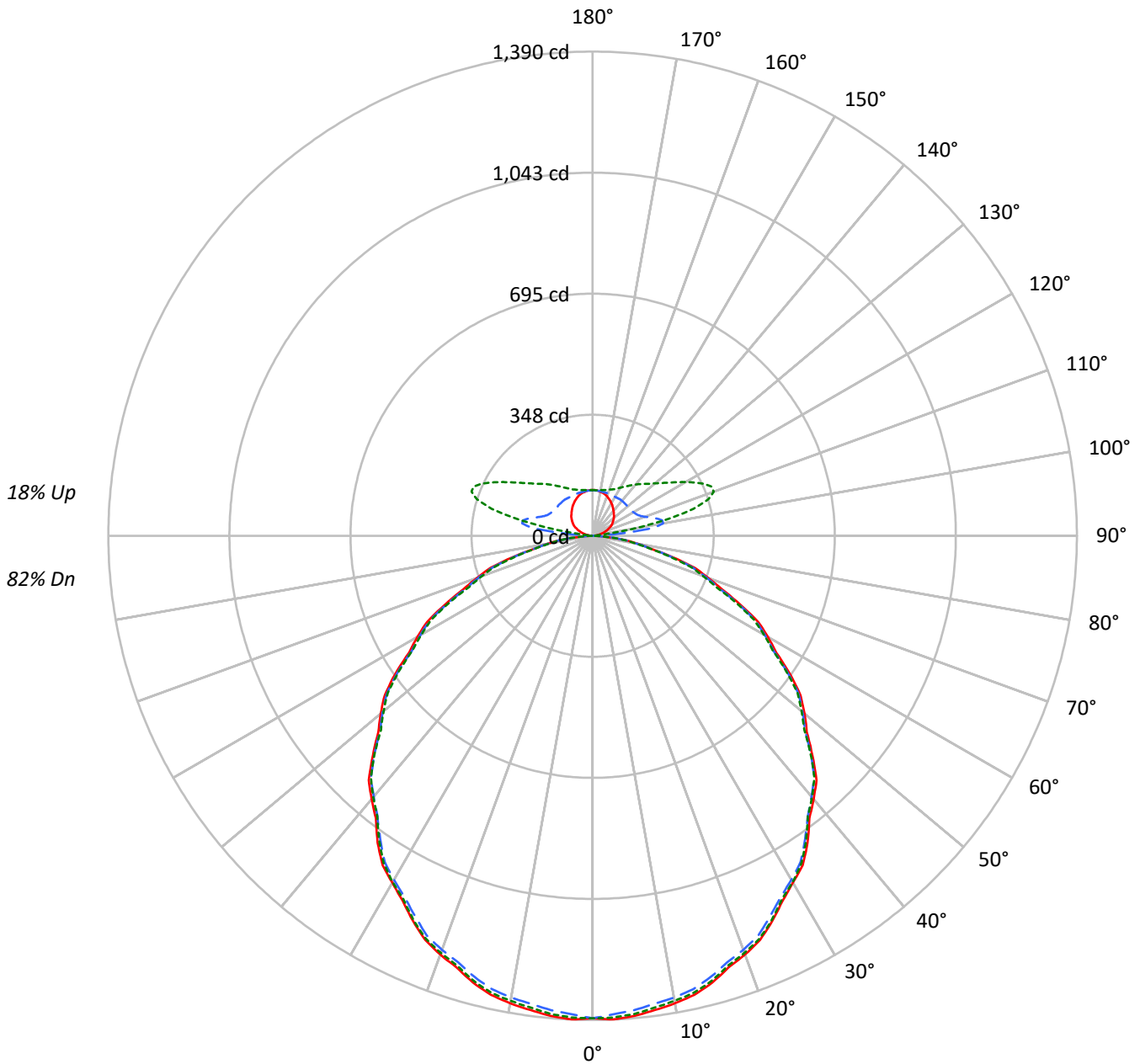
Lumens per Lamp: N/A  
Luminaire Lumens: 4632.5 lumens  
Efficiency: N/A  
Efficacy: 110.6 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 41.9  
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	115	115	115	115	110	110	110	110	101	101	101	93	93	93	85	85	85	82																			
1	105	100	96	93	100	96	93	89	89	86	83	82	79	77	75	74	72	69																			
2	95	88	81	75	91	84	78	73	78	73	69	72	68	64	66	63	60	57																			
3	87	77	69	63	83	74	67	61	68	63	58	63	58	54	58	55	51	48																			
4	80	68	60	53	76	66	58	52	61	54	49	56	51	47	52	48	44	41																			
5	73	61	52	46	70	59	51	45	54	48	42	51	45	40	47	42	38	36																			
6	68	55	46	40	64	53	45	39	49	42	37	46	40	35	43	38	34	31																			
7	63	49	41	35	60	48	40	34	45	38	33	42	36	31	39	34	30	28																			
8	58	45	37	31	56	44	36	31	41	34	29	38	32	28	36	31	27	25																			
9	54	41	33	28	52	40	33	27	37	31	26	35	29	25	33	28	24	22																			
10	51	38	30	25	49	37	30	25	35	28	24	33	27	23	31	26	22	20																			

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

	0°	45°	90°
0°	12782	12782	12782
5°	12814	12660	12762
10°	12769	12614	12701
15°	12683	12523	12630
20°	12563	12418	12510
25°	12422	12272	12386
30°	12249	12150	12230
35°	12117	11970	12031
40°	11886	11771	11795
45°	11640	11543	11543
50°	11394	11288	11236
55°	11128	10978	10919
60°	10713	10542	10474
65°	10204	10001	9876
70°	9506	9301	9104
75°	8527	8263	8063
80°	6902	6811	6604
85°	4107	4721	4901



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	130.7	2.8
10°-20°	372.2	8.0
20°-30°	559.1	12.1
30°-40°	667.4	14.4
40°-50°	683.9	14.8
50°-60°	609.9	13.2
60°-70°	454.2	9.8
70°-80°	246.6	5.3
80°-90°	57.4	1.2
90°-100°	52.2	1.1
100°-110°	181.6	3.9
110°-120°	175.9	3.8
120°-130°	138.0	3.0
130°-140°	109.2	2.4
140°-150°	84.3	1.8
150°-160°	60.4	1.3
160°-170°	37.0	0.8
170°-180°	12.5	0.3
0°-30°	1062.0	22.9
0°-40°	1729.4	37.3
0°-60°	3023.3	65.3
0°-90°	3781.5	81.6
90°-120°	409.7	8.8
90°-150°	741.2	16.0
90°-180°	851.0	18.4
0°-180°	4632.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1385	1385	1385	1385	1385	
5°	1384	1382	1367	1380	1378	131
15°	1328	1324	1311	1322	1322	374
25°	1220	1217	1206	1213	1217	562
35°	1076	1072	1063	1063	1068	671
45°	892	894	885	883	885	689
55°	692	692	682	677	679	616
65°	467	466	458	452	452	463
75°	239	237	232	228	226	253
85°	39	42	45	46	46	54
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°	1385.4	1385.4	1385.4	1385.4	1385.4
2.5°	1389.7	1386.9	1375.0	1385.4	1384.1
5°	1383.6	1381.7	1367.0	1379.8	1378.0
7.5°	1373.4	1370.0	1355.3	1368.0	1366.1
10°	1363.0	1359.4	1346.4	1357.5	1355.7
12.5°	1349.8	1347.7	1333.2	1344.3	1343.8
15°	1327.8	1324.1	1311.1	1322.3	1322.3
17.5°	1299.0	1296.8	1284.1	1294.6	1293.6
20°	1279.5	1276.1	1264.8	1274.1	1274.1
22.5°	1255.9	1253.7	1242.7	1250.3	1251.8
25°	1220.2	1216.7	1205.5	1213.0	1216.7
27.5°	1181.0	1178.2	1168.9	1173.7	1176.2
30°	1149.8	1149.8	1140.5	1142.5	1148.0
32.5°	1121.7	1121.7	1110.9	1112.8	1115.5
35°	1075.8	1072.1	1062.8	1062.8	1068.2
37.5°	1022.1	1020.4	1014.6	1013.5	1015.0
40°	986.9	984.9	977.3	979.3	979.3
42.5°	951.2	949.2	941.6	939.2	942.1
45°	892.1	894.0	884.7	882.8	884.7
47.5°	834.0	834.0	826.5	821.3	824.1
50°	793.8	793.8	786.4	782.8	782.8
52.5°	752.2	753.7	744.6	739.7	741.2
55°	691.8	691.8	682.5	677.1	678.8
57.5°	624.9	624.9	615.8	610.2	613.5
60°	580.6	580.6	571.3	565.6	567.6
62.5°	536.0	536.0	526.9	521.3	521.5
65°	467.4	465.6	458.1	452.4	452.4
67.5°	401.3	396.5	390.9	383.6	383.6
70°	352.4	350.4	344.8	337.5	337.5
72.5°	307.9	304.5	299.0	293.1	293.1
75°	239.2	237.2	231.8	228.2	226.2
77.5°	171.4	169.9	169.5	164.3	165.8
80°	129.9	129.9	128.2	124.3	124.3
82.5°	92.7	94.1	90.9	90.0	88.6
85°	38.8	42.5	44.6	46.3	46.3
87.5°	7.5	11.6	10.4	11.9	11.9
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)