

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: P845267

Luminaire Tested: **SQ4P-PW1-0U-075D-B35-1D-UNV**

Issue Date: 8/14/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P845267  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P564826)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/14/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4P-PW1-0U-075D-B35-1D-UNV  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, DIRECT ONLY 750 LUMENS PER FOOT DOWNLIGHT  
  
Light Source: -  
Ballast/Driver: -

**Summary**

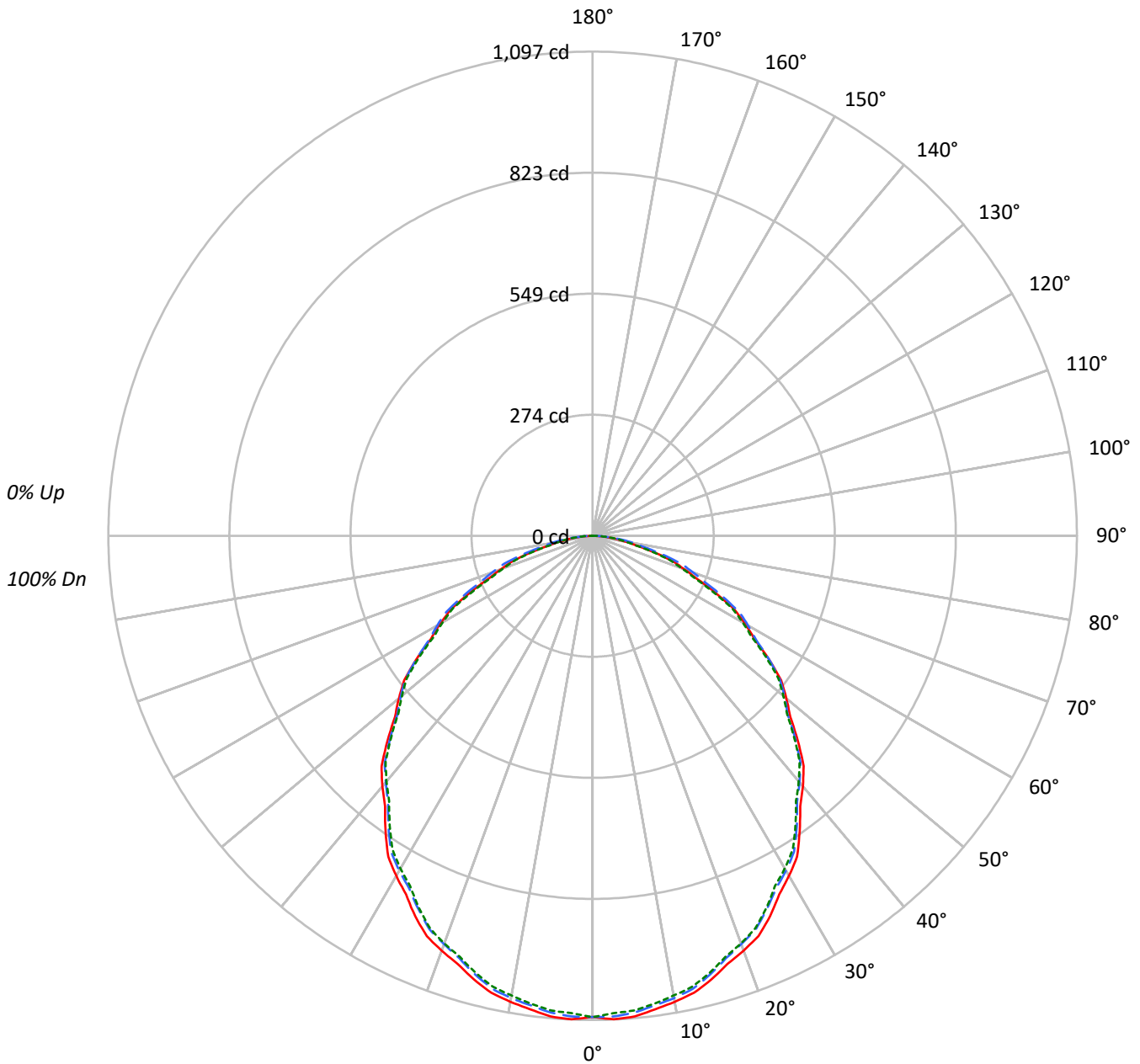
Lumens per Lamp: N/A  
Luminaire Lumens: 2774.2 lumens  
Efficiency: N/A  
Efficacy: 108.4 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 25.6  
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

TEST NUMBER: P845267

CATALOG NUMBER: SQ4P-PW1-0U-075D-B35-1D-UNV

### Luminous Intensity Polar Plot





TEST NUMBER: P845267

CATALOG NUMBER: SQ4P-PW1-0U-075D-B35-1D-UNV

**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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85																			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71																			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60																			
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52																			
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45																			
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40																			
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35																			
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31																			
9	58	44	36	31	56	44	36	31	43	35	31	42	35	30	41	35	30	28																			
10	54	41	33	28	53	40	33	28	39	33	28	39	32	28	38	32	28	26																			

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

	0°	45°	90°
0°	10059	10059	10059
5°	10126	10045	10001
10°	10044	9963	9909
15°	9939	9828	9790
20°	9819	9667	9650
25°	9682	9506	9476
30°	9477	9335	9273
35°	9209	9077	9024
40°	8922	8781	8748
45°	8574	8462	8422
50°	8220	8151	8092
55°	7834	7834	7711
60°	7359	7499	7233
65°	6731	7067	6565
70°	5932	6504	5781
75°	5073	5821	4930
80°	3932	4904	3990
85°	2541	3769	3345



TEST NUMBER: P845267

CATALOG NUMBER: SQ4P-PW1-0U-075D-B35-1D-UNV

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.7	3.7
10°-20°	289.9	10.4
20°-30°	430.0	15.5
30°-40°	503.1	18.1
40°-50°	500.9	18.1
50°-60°	432.6	15.6
60°-70°	311.3	11.2
70°-80°	163.3	5.9
80°-90°	40.5	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	822.6	29.6
0°-40°	1325.7	47.8
0°-60°	2259.1	81.4
0°-90°	2774.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2774.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1090	1090	1090	1090	1090	
5°	1093	1081	1085	1082	1080	104
15°	1040	1027	1029	1027	1025	293
25°	951	935	934	928	931	437
35°	818	806	806	798	801	511
45°	657	651	648	646	646	507
55°	487	486	487	480	479	435
65°	308	318	324	311	301	306
75°	142	155	163	152	138	152
85°	24	32	36	34	32	33
90°	0	0	0	0	0	



TEST NUMBER: P845267

CATALOG NUMBER: SQ4P-PW1-0U-075D-B35-1D-UNV

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1090.3	1090.3	1090.3	1090.3	1090.3
2.5°	1096.6	1087.5	1090.3	1088.0	1082.7
5°	1093.3	1081.0	1084.6	1081.7	1079.8
7.5°	1082.2	1070.9	1073.4	1070.5	1069.3
10°	1072.1	1060.9	1063.5	1059.7	1057.7
12.5°	1060.7	1048.5	1051.3	1047.3	1046.3
15°	1040.5	1027.2	1028.9	1026.9	1025.0
17.5°	1016.9	1003.7	1003.9	1000.9	1000.4
20°	1000.1	986.0	984.6	980.8	982.9
22.5°	981.7	966.8	965.5	960.2	962.8
25°	951.1	935.1	933.8	928.1	930.8
27.5°	915.7	900.1	900.1	892.0	894.9
30°	889.6	874.5	876.2	866.6	870.4
32.5°	861.9	848.4	849.2	839.8	843.5
35°	817.6	806.3	805.9	798.3	801.2
37.5°	772.2	762.3	760.6	756.3	756.9
40°	740.8	732.3	729.1	726.3	726.3
42.5°	707.6	700.0	696.8	694.7	694.0
45°	657.1	651.4	648.5	646.5	645.5
47.5°	607.1	601.9	599.3	598.0	597.0
50°	572.7	568.8	567.9	564.8	563.8
52.5°	538.0	535.8	534.7	531.1	530.1
55°	487.0	486.2	487.0	480.4	479.4
57.5°	434.0	435.6	438.7	429.6	427.2
60°	398.8	402.4	406.4	395.8	392.0
62.5°	362.5	368.6	374.1	361.9	356.5
65°	308.3	317.7	323.7	311.0	300.7
67.5°	256.2	267.7	274.9	261.3	249.5
70°	219.9	233.2	241.1	227.3	214.3
72.5°	188.5	203.2	209.6	196.6	183.5
75°	142.3	155.3	163.3	152.4	138.3
77.5°	100.9	113.3	119.9	110.5	98.7
80°	74.0	87.1	92.3	84.3	75.1
82.5°	52.5	63.4	66.9	62.1	55.7
85°	24.0	31.5	35.6	33.7	31.6
87.5°	6.2	11.4	14.6	14.6	15.4
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG







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







(END OF REPORT)