

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: P521140

Luminaire Tested: **SQ4-BB-0U-050D-93050-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/5/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P521140  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-966-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/5/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-BB-0U-050D-93050-1D-UNV-STD-W-4 (3000K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE  
DOWNLIGHT 500 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

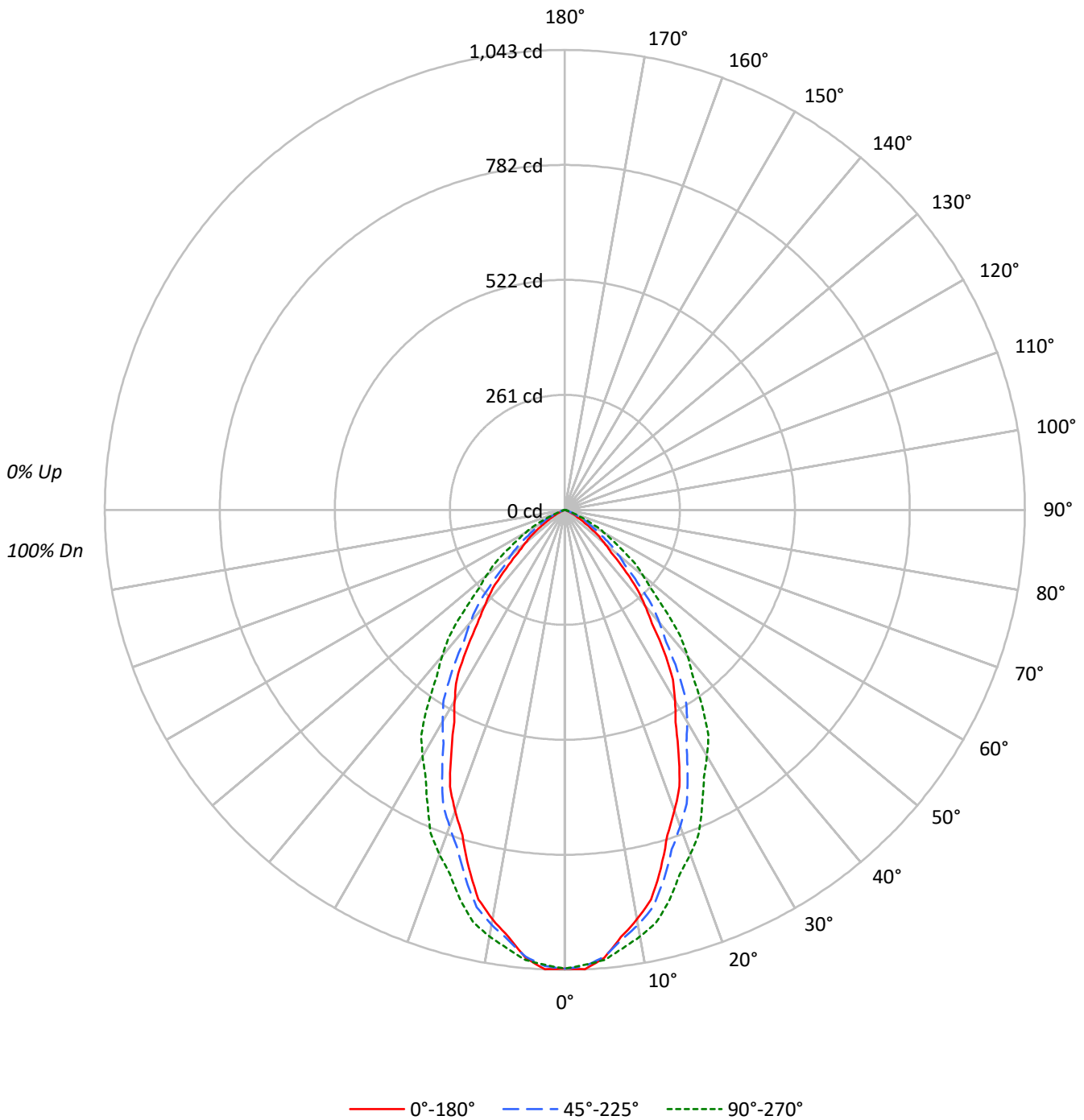
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1241.2 lumens  
Efficiency: N/A  
Efficacy: 59.4 lumens/watt  
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 20.9  
Input Voltage (V): 120  
Input Current (Ain): 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: 24 FT

TEST NUMBER: P521140  
CATALOG NUMBER: SQ4-BB-0U-050D-93050-1D-UNV-STD-W-4 (3000K)

### Luminous Intensity Polar Plot





TEST NUMBER: P521140

CATALOG NUMBER: SQ4-BB-0U-050D-93050-1D-UNV-STD-W-4 (3000K)

**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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91				91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82				82
3	99	91	85	81	97	90	84	80	87	82	79	85	81	77	82	79	76	74				74
4	93	84	77	72	91	83	76	72	80	75	71	78	74	70	76	72	69	67				67
5	87	77	70	65	85	76	70	65	74	68	64	72	67	64	71	66	63	61				61
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56				56
7	77	66	59	54	75	65	59	54	64	58	53	62	57	53	61	56	53	51				51
8	72	61	54	50	71	61	54	49	59	53	49	58	53	49	57	52	49	47				47
9	68	57	50	46	67	57	50	46	56	50	46	55	49	45	54	49	45	44				44
10	65	54	47	42	63	53	47	42	52	46	42	51	46	42	51	46	42	41				41

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

	0°	45°	90°
0°	9600	9600	9600
5°	9446	9422	9492
10°	8837	8955	9206
15°	8035	8289	8751
20°	7132	7502	8160
25°	6211	6703	7497
30°	5320	5904	6869
35°	4411	5012	6111
40°	3389	4007	5208
45°	2450	3035	4191
50°	1669	2262	3324
55°	1086	1636	2583
60°	622	1151	1867
65°	166	703	945
70°	81	219	272
75°	36	18	0
80°	27	0	0
85°	0	0	0



TEST NUMBER: P521140

CATALOG NUMBER: SQ4-BB-0U-050D-93050-1D-UNV-STD-W-4 (3000K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	95.0	7.7
10°-20°	242.8	19.6
20°-30°	304.0	24.5
30°-40°	280.8	22.6
40°-50°	188.7	15.2
50°-60°	97.5	7.9
60°-70°	30.5	2.5
70°-80°	1.9	0.2
80°-90°	0.0	0.0
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°	641.8	51.7
0°-40°	922.6	74.3
0°-60°	1208.7	97.4
0°-90°	1241.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1241.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1040	1040	1040	1040	1040	
5°	1020	1010	1017	1021	1025	95
15°	841	838	868	897	916	234
25°	610	615	658	704	736	280
35°	392	402	445	497	543	243
45°	188	199	233	278	321	147
55°	68	79	102	131	161	63
65°	8	14	32	39	43	13
75°	1	1	0	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P521140

CATALOG NUMBER: SQ4-BB-0U-050D-93050-1D-UNV-STD-W-4 (3000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1040.5	1040.5	1040.5	1040.5	1040.5
2.5°	1042.9	1033.1	1035.7	1035.6	1032.8
5°	1019.9	1009.5	1017.3	1020.9	1024.9
7.5°	976.8	968.7	983.7	995.0	1003.1
10°	943.3	936.4	955.9	971.3	982.6
12.5°	904.7	899.4	922.9	944.0	958.4
15°	841.2	838.2	867.8	897.0	916.2
17.5°	773.1	773.0	806.8	843.0	866.1
20°	726.4	727.9	764.1	804.0	831.1
22.5°	679.7	683.1	721.8	763.4	794.4
25°	610.1	615.0	658.4	703.5	736.4
27.5°	543.2	550.4	596.1	642.9	683.1
30°	499.4	507.7	554.2	603.5	644.8
32.5°	456.3	466.2	511.5	563.6	605.8
35°	391.6	401.5	445.0	497.4	542.6
37.5°	324.9	334.5	377.0	428.6	477.5
40°	281.4	292.2	332.7	382.7	432.4
42.5°	241.9	252.8	290.9	339.9	386.9
45°	187.8	199.1	232.6	277.8	321.2
47.5°	142.9	155.2	184.5	225.5	265.0
50°	116.3	128.6	157.6	193.7	231.6
52.5°	94.9	106.8	133.0	167.0	201.8
55°	67.5	78.8	101.7	130.6	160.6
57.5°	46.6	56.4	76.9	101.0	124.5
60°	33.7	43.1	62.4	82.0	101.2
62.5°	22.5	31.0	49.9	64.9	77.8
65°	7.6	14.4	32.2	38.9	43.3
67.5°	3.8	4.6	16.9	17.9	19.3
70°	3.0	3.0	8.1	8.6	10.1
72.5°	2.2	2.2	3.2	4.1	4.4
75°	1.0	1.0	0.5	0.0	0.0
77.5°	0.5	0.5	0.4	0.0	0.0
80°	0.5	0.5	0.0	0.0	0.0
82.5°	0.1	0.1	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)