

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: P521868

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

Issue Date: 5/5/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P521868  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-966-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/5/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-WB-0U-050D-93050-1D-UNV-STD-W-4 (3000K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE 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**

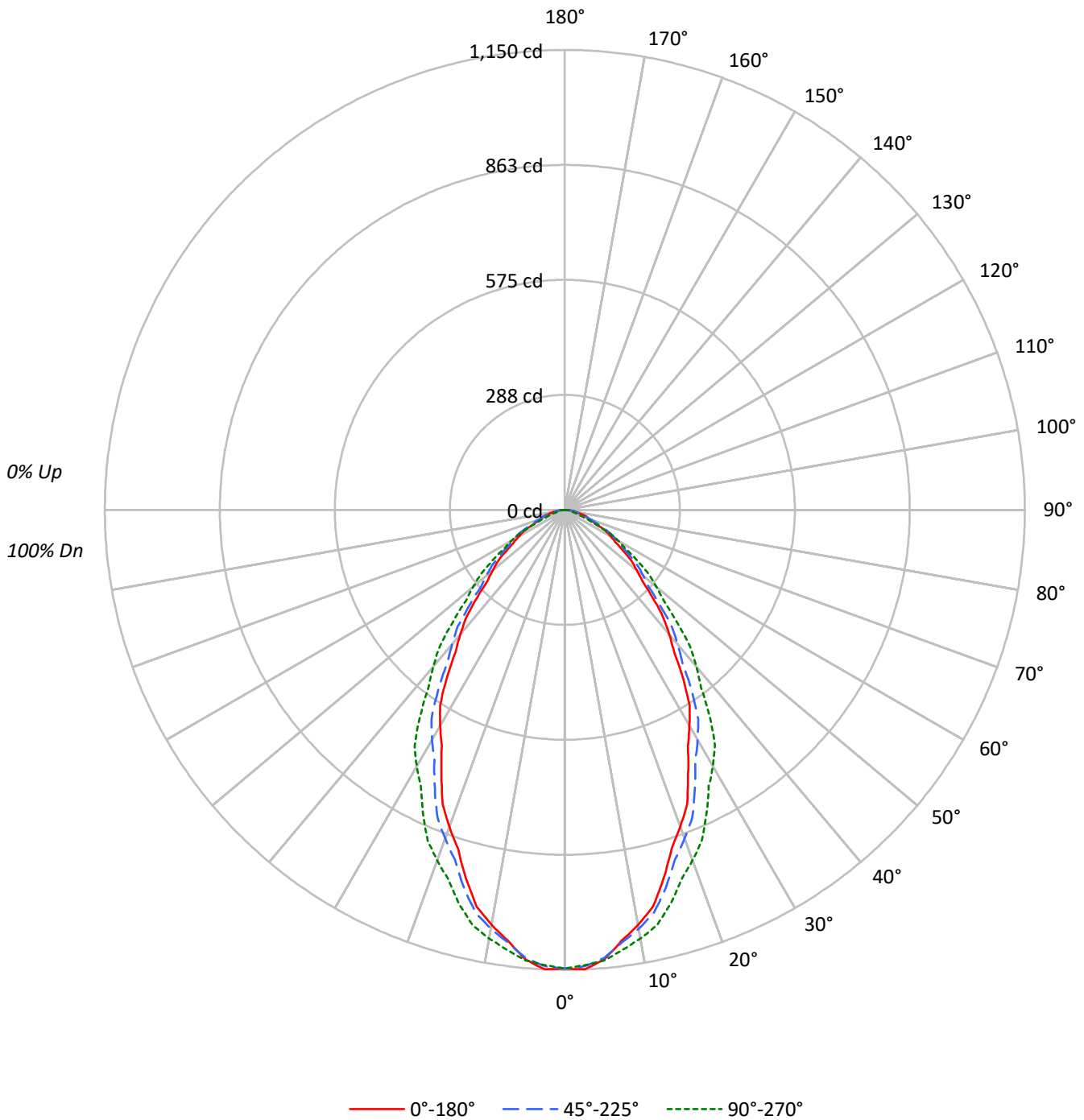
Lumens per Lamp: N/A  
Luminaire Lumens: 1671.7 lumens  
Efficiency: N/A  
Efficacy: 80.0 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Direct

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: P521868

CATALOG NUMBER: SQ4-WB-OU-050D-93050-1D-UNV-STD-W-4 (3000K)

### Luminous Intensity Polar Plot





TEST NUMBER: P521868

CATALOG NUMBER: SQ4-WB-OU-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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89
2	103	97	91	87	101	95	90	86	92	87	84	88	85	82	85	83	80	78
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69
4	89	79	72	66	87	78	71	66	76	70	65	74	68	64	71	67	64	62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	55
6	78	66	59	53	76	65	58	53	64	57	53	62	56	52	61	56	52	50
7	73	61	53	48	71	60	53	48	59	52	48	58	52	47	56	51	47	45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	41
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38
10	61	49	42	37	60	48	42	37	48	41	37	47	41	37	46	41	37	35

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

	0°	45°	90°
0°	10584	10584	10584
5°	10452	10415	10476
10°	9875	9964	10196
15°	9116	9328	9747
20°	8279	8590	9159
25°	7425	7830	8532
30°	6639	7074	7884
35°	5806	6225	7115
40°	4886	5274	6159
45°	4033	4381	5142
50°	3367	3670	4284
55°	2858	3150	3539
60°	2443	2731	2823
65°	1945	2297	1825
70°	1724	1791	1114
75°	1597	1454	681
80°	1472	1339	590
85°	1334	1228	476



TEST NUMBER: P521868

CATALOG NUMBER: SQ4-WB-OU-050D-93050-1D-UNV-STD-W-4 (3000K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	105.2	6.3
10°-20°	273.7	16.4
20°-30°	354.5	21.2
30°-40°	347.2	20.8
40°-50°	265.7	15.9
50°-60°	177.1	10.6
60°-70°	96.6	5.8
70°-80°	40.3	2.4
80°-90°	11.4	0.7
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°	733.4	43.9
0°-40°	1080.6	64.6
0°-60°	1523.4	91.1
0°-90°	1671.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1671.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1147	1147	1147	1147	1147	
5°	1129	1117	1125	1127	1131	105
15°	954	951	977	1003	1020	267
25°	729	731	769	803	838	335
35°	516	518	553	590	632	320
45°	309	315	336	361	394	241
55°	178	185	196	203	220	161
65°	89	96	105	92	84	93
75°	45	45	41	28	19	48
85°	13	13	12	8	4	14
90°	0	0	0	0	0	



TEST NUMBER: P521868

CATALOG NUMBER: SQ4-WB-OU-050D-93050-1D-UNV-STD-W-4 (3000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1147.2	1147.2	1147.2	1147.2	1147.2
2.5°	1150.0	1139.8	1142.4	1142.3	1139.2
5°	1128.6	1117.3	1124.6	1127.2	1131.1
7.5°	1086.7	1078.1	1091.4	1101.3	1109.3
10°	1054.1	1046.7	1063.6	1078.0	1088.3
12.5°	1016.2	1010.0	1031.0	1050.3	1063.7
15°	954.4	951.0	976.6	1003.1	1020.4
17.5°	888.3	886.6	916.0	947.0	969.0
20°	843.2	842.7	874.9	907.2	932.8
22.5°	797.7	798.7	832.6	866.2	895.3
25°	729.4	731.4	769.2	802.7	838.1
27.5°	666.3	667.2	706.2	741.6	779.4
30°	623.2	625.6	664.0	700.6	740.0
32.5°	580.1	583.0	620.5	658.3	698.5
35°	515.5	517.9	552.7	589.9	631.7
37.5°	448.8	452.2	483.0	518.2	559.4
40°	405.7	410.6	437.9	471.1	511.4
42.5°	364.2	370.4	395.7	427.1	463.5
45°	309.1	315.0	335.8	361.2	394.1
47.5°	261.6	268.3	284.3	306.2	334.3
50°	234.6	241.0	255.7	271.9	298.5
52.5°	210.8	217.2	230.3	242.8	265.5
55°	177.7	185.1	195.8	203.2	220.0
57.5°	150.5	157.6	166.1	169.5	179.6
60°	132.4	140.3	148.0	147.6	153.0
62.5°	115.9	122.6	130.3	124.9	125.2
65°	89.1	96.5	105.2	91.9	83.6
67.5°	72.0	73.6	82.6	64.1	54.2
70°	63.9	63.9	66.4	49.6	41.3
72.5°	56.3	56.3	54.0	40.4	31.6
75°	44.8	44.8	40.8	28.0	19.1
77.5°	34.5	34.1	31.2	20.9	13.9
80°	27.7	27.7	25.2	16.5	11.1
82.5°	21.6	21.6	19.5	12.9	8.3
85°	12.6	12.6	11.6	7.5	4.5
87.5°	4.4	4.4	4.0	2.4	2.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)