

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: P521777

Luminaire Tested: **SQ4-WB-050U-075D-93050-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/5/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P521777  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-50,  
Test Lab: INNOVATION CENTER  
Issue Date: 5/5/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-WB-050U-075D-93050-1D-UNV-STD-W-4 (3000K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

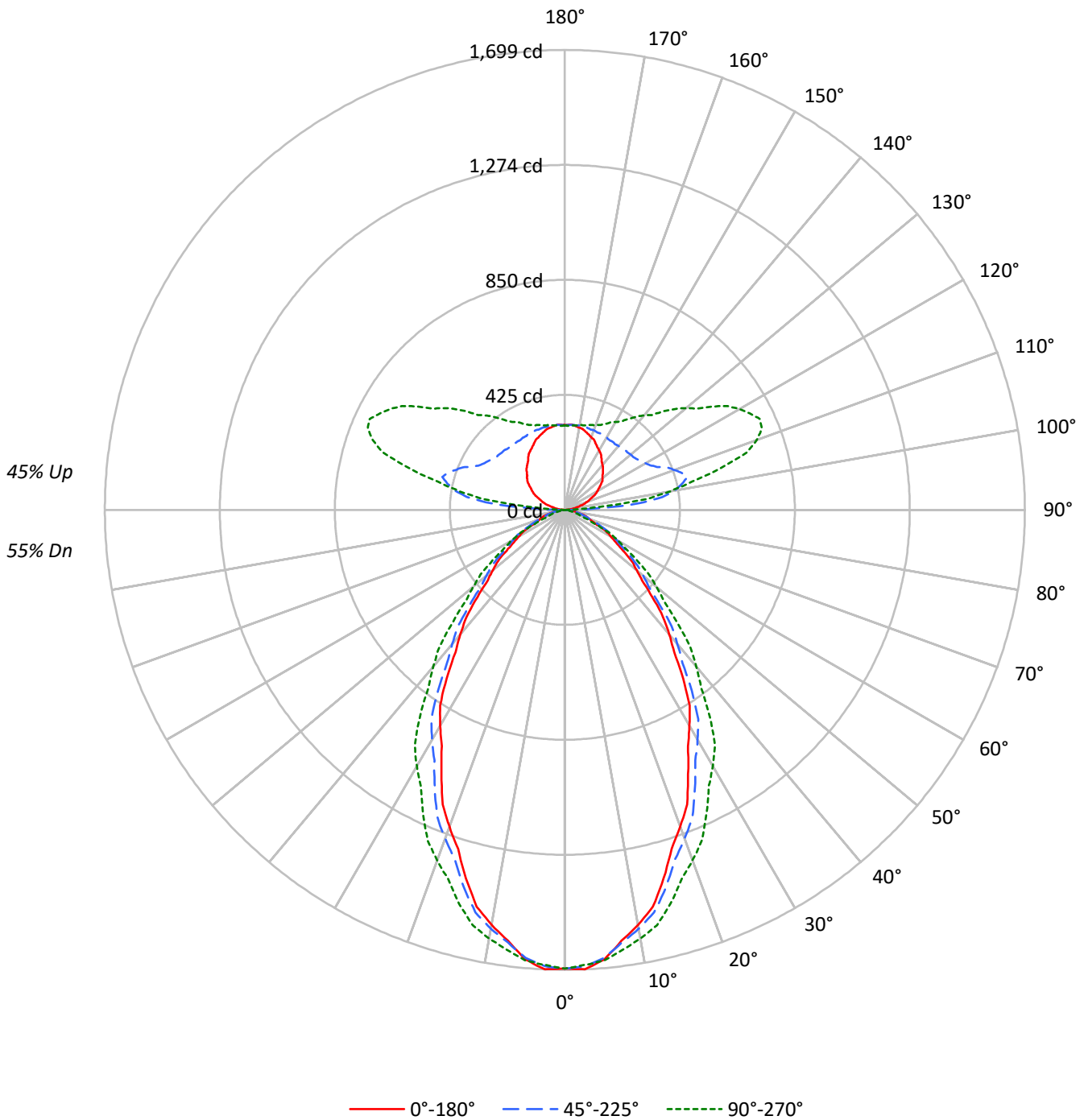
Lumens per Lamp: N/A  
Luminaire Lumens: 4492.4 lumens  
Efficiency: N/A  
Efficacy: 94.4 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 47.6  
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

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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	0
RCR																		
0	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	55
1	100	96	93	90	93	90	87	84	77	75	73	66	65	63	56	55	54	49
2	92	86	80	75	86	80	75	71	69	66	63	60	57	55	51	49	47	43
3	85	76	70	64	79	72	66	61	62	58	54	54	51	48	46	44	42	38
4	79	69	61	56	73	64	58	53	56	52	48	49	45	42	42	39	37	34
5	73	62	54	49	68	58	52	47	51	46	42	45	41	38	39	36	33	30
6	67	56	49	43	63	53	46	41	47	41	38	41	37	34	36	33	30	27
7	63	51	44	39	58	48	42	37	43	38	34	38	34	31	33	30	27	25
8	59	47	40	35	55	44	38	33	40	34	30	35	31	28	31	27	25	23
9	55	43	36	31	51	41	35	30	37	31	28	32	28	25	29	25	23	21
10	51	40	33	29	48	38	32	27	34	29	25	30	26	23	27	24	21	19

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

	0°	45°	90°
0°	15637	15637	15637
5°	15442	15387	15477
10°	14590	14722	15064
15°	13468	13781	14399
20°	12231	12690	13531
25°	10970	11569	12605
30°	9809	10450	11646
35°	8577	9197	10512
40°	7219	7792	9100
45°	5958	6472	7598
50°	4975	5423	6330
55°	4222	4654	5228
60°	3609	4034	4172
65°	2873	3393	2696
70°	2546	2649	1646
75°	2360	2146	1009
80°	2173	1976	871
85°	1969	1810	709



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	155.5	3.5
10°-20°	404.4	9.0
20°-30°	523.8	11.7
30°-40°	512.9	11.4
40°-50°	392.6	8.7
50°-60°	261.6	5.8
60°-70°	142.7	3.2
70°-80°	59.5	1.3
80°-90°	16.8	0.4
90°-100°	161.0	3.6
100°-110°	389.2	8.7
110°-120°	415.1	9.2
120°-130°	336.2	7.5
130°-140°	260.3	5.8
140°-150°	198.6	4.4
150°-160°	143.7	3.2
160°-170°	88.5	2.0
170°-180°	30.0	0.7
0°-30°	1083.6	24.1
0°-40°	1596.5	35.5
0°-60°	2250.6	50.1
0°-90°	2469.7	55.0
90°-120°	965.3	21.5
90°-150°	1760.4	39.2
90°-180°	2023.0	45.0
0°-180°	4492.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1695	1695	1695	1695	1695	
5°	1667	1651	1661	1665	1671	155
15°	1410	1405	1443	1482	1508	394
25°	1078	1080	1136	1186	1238	496
35°	762	765	817	872	933	473
45°	457	465	496	534	582	356
55°	262	273	289	300	325	238
65°	132	142	155	136	124	137
75°	66	66	60	41	28	71
85°	19	19	17	11	7	20
90°	0	0	0	0	0	2
95°	16	81	276	179	126	18
105°	62	108	468	605	598	66
115°	114	146	376	712	795	113
125°	162	187	326	567	666	145
135°	199	222	313	447	514	154
145°	236	253	307	380	410	147
155°	270	282	311	336	349	125
165°	298	303	315	320	324	84
175°	316	314	316	313	312	30
180°	312	312	312	312	312	



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CATALOG NUMBER: SQ4-WB-050U-075D-93050-1D-UNV-STD-W-4 (3000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1694.9	1694.9	1694.9	1694.9	1694.9
2.5°	1699.0	1683.9	1687.7	1687.6	1683.0
5°	1667.3	1650.6	1661.4	1665.3	1671.1
7.5°	1605.5	1592.8	1612.5	1627.0	1638.8
10°	1557.3	1546.4	1571.4	1592.6	1607.9
12.5°	1501.4	1492.2	1523.2	1551.6	1571.6
15°	1410.0	1404.9	1442.8	1482.0	1507.5
17.5°	1312.3	1309.8	1353.2	1399.0	1431.6
20°	1245.7	1245.0	1292.5	1340.2	1378.1
22.5°	1178.4	1180.0	1230.1	1279.7	1322.7
25°	1077.6	1080.5	1136.4	1185.9	1238.2
27.5°	984.3	985.7	1043.4	1095.7	1151.5
30°	920.7	924.3	980.9	1035.0	1093.2
32.5°	857.0	861.2	916.7	972.6	1031.9
35°	761.5	765.2	816.6	871.5	933.3
37.5°	663.1	668.0	713.6	765.6	826.4
40°	599.4	606.7	647.0	696.0	755.6
42.5°	538.1	547.1	584.5	631.0	684.8
45°	456.6	465.4	496.0	533.6	582.3
47.5°	386.4	396.5	420.0	452.4	494.0
50°	346.6	356.0	377.8	401.7	441.0
52.5°	311.5	320.9	340.3	358.8	392.2
55°	262.5	273.4	289.3	300.3	325.0
57.5°	222.4	232.8	245.4	250.4	265.3
60°	195.6	207.2	218.6	218.1	226.1
62.5°	171.2	181.1	192.5	184.6	185.0
65°	131.6	142.5	155.4	135.8	123.5
67.5°	106.3	108.7	122.0	94.7	80.0
70°	94.4	94.4	98.2	73.3	61.0
72.5°	83.1	83.1	79.7	59.6	46.7
75°	66.2	66.2	60.2	41.3	28.3
77.5°	51.0	50.4	46.1	30.9	20.5
80°	40.9	40.9	37.2	24.4	16.4
82.5°	32.0	32.0	28.9	19.0	12.2
85°	18.6	18.6	17.1	11.1	6.7
87.5°	6.5	6.5	5.9	3.6	3.0
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.3	43.6	102.7	49.9	33.9
95°	15.9	80.6	275.9	179.4	125.7
97.5°	28.2	89.3	363.4	350.1	300.5
100°	37.7	94.6	411.5	434.4	393.7
102.5°	46.7	99.5	443.3	504.7	480.5
105°	62.2	107.5	467.8	605.2	597.5
107.5°	77.4	116.9	453.4	685.9	704.1
110°	88.0	124.9	430.1	720.6	754.9

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	98.6	132.9	409.4	729.1	787.7
115°	113.8	145.5	375.8	712.5	794.6
117.5°	128.9	158.8	356.1	674.1	770.4
120°	138.9	166.8	343.4	644.1	745.0
122.5°	149.5	175.3	335.4	613.3	712.7
125°	162.1	186.7	326.2	566.6	665.6
127.5°	174.5	197.7	319.7	527.0	614.0
130°	181.9	204.6	317.6	499.5	584.9
132.5°	188.8	212.5	314.4	479.6	552.1
135°	199.2	222.4	313.0	446.8	514.1
137.5°	208.9	232.4	308.3	424.6	475.3
140°	216.4	237.7	308.3	408.6	455.2
142.5°	223.8	245.1	305.7	394.7	434.0
145°	235.5	253.0	307.0	379.8	409.6
147.5°	246.5	263.5	306.2	362.6	387.2
150°	253.4	268.3	308.3	355.1	374.5
152.5°	260.8	275.2	307.8	347.1	364.4
155°	269.9	281.6	311.0	336.4	348.7
157.5°	280.9	290.9	310.3	332.3	339.5
160°	285.2	293.6	313.0	327.0	332.1
162.5°	292.0	299.4	311.9	325.3	328.4
165°	298.4	302.9	314.9	319.7	324.2
167.5°	306.2	309.2	314.1	319.3	319.4
170°	308.3	310.3	316.3	315.7	318.9
172.5°	312.0	313.4	314.7	316.1	314.1
175°	315.6	314.3	315.6	312.9	312.3
177.5°	314.9	314.9	313.9	312.8	310.2
180°	312.3	312.3	312.3	312.3	312.3

(END OF REPORT)