

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P562208

Luminaire Tested: **SQ4-PW1-050U-075D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562208  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PW1-050U-075D-92765-1D-UNV-STD-W-4 (3500K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5157.9 lumens  
Efficiency: N/A  
Efficacy: 108.1 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: General Diffuse

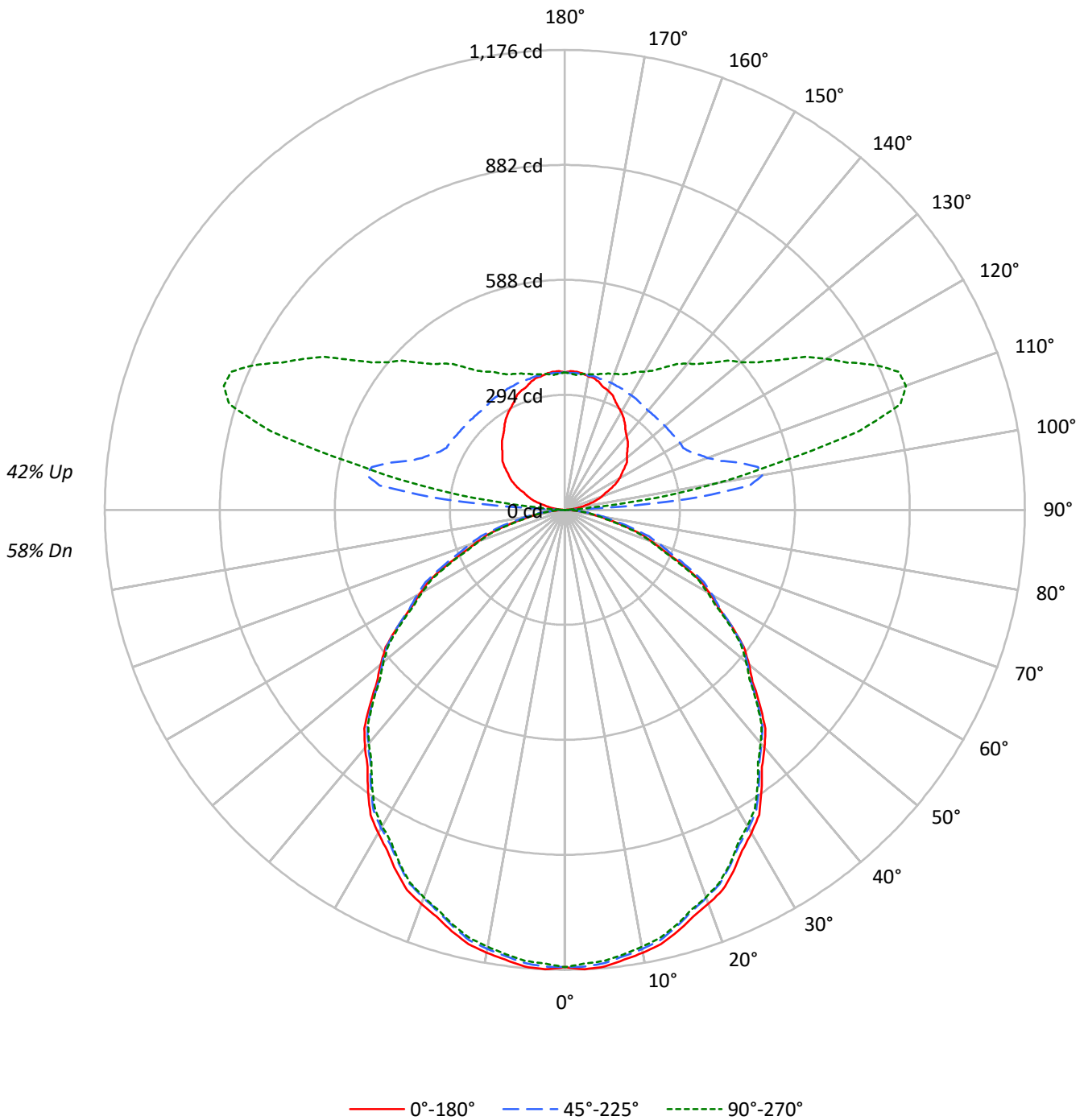
Input Watts (W): 47.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	109	109	109	109	102	102	102	102	88	88	88	75	75	75	63	63	63	58
1	100	95	91	88	93	89	86	83	77	75	72	66	64	63	56	55	54	49
2	91	83	77	72	84	78	72	68	68	64	60	58	55	52	49	47	45	41
3	83	73	66	60	77	69	62	57	60	55	51	52	48	44	44	41	39	35
4	76	65	57	51	70	61	54	48	53	48	43	46	42	38	39	36	33	30
5	70	58	50	44	65	54	47	42	48	42	37	41	37	33	35	32	29	26
6	64	52	44	38	60	49	42	36	43	37	33	37	33	29	32	28	26	23
7	59	47	39	33	55	44	37	32	39	33	29	34	29	26	29	26	23	20
8	55	43	35	30	51	40	33	28	36	30	26	31	26	23	27	23	20	18
9	51	39	32	26	48	37	30	25	33	27	23	29	24	21	25	21	18	16
10	48	36	29	24	45	34	27	23	30	25	21	26	22	19	23	19	17	15

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

	0°	45°	90°
0°	10788	10788	10788
5°	10858	10773	10725
10°	10772	10685	10627
15°	10658	10539	10500
20°	10530	10368	10349
25°	10384	10194	10163
30°	10163	10010	9944
35°	9875	9736	9677
40°	9567	9418	9381
45°	9195	9073	9033
50°	8813	8740	8681
55°	8401	8401	8270
60°	7890	8042	7756
65°	7220	7580	7041
70°	6364	6976	6196
75°	5436	6242	5290
80°	4213	5255	4272
85°	2731	4033	3599



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.1	2.1
10°-20°	310.9	6.0
20°-30°	461.1	8.9
30°-40°	539.6	10.5
40°-50°	537.2	10.4
50°-60°	463.9	9.0
60°-70°	333.9	6.5
70°-80°	175.1	3.4
80°-90°	43.4	0.8
90°-100°	160.1	3.1
100°-110°	455.6	8.8
110°-120°	436.5	8.5
120°-130°	345.5	6.7
130°-140°	277.3	5.4
140°-150°	217.1	4.2
150°-160°	158.8	3.1
160°-170°	98.4	1.9
170°-180°	33.4	0.6
0°-30°	882.1	17.1
0°-40°	1421.7	27.6
0°-60°	2422.7	47.0
0°-90°	2975.1	57.7
90°-120°	1052.2	20.4
90°-150°	1892.1	36.7
90°-180°	2183.0	42.3
0°-180°	5157.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1169	1169	1169	1169	1169	
5°	1172	1159	1163	1160	1158	111
15°	1116	1102	1103	1101	1099	314
25°	1020	1003	1001	995	998	469
35°	877	865	864	856	859	548
45°	705	699	695	693	692	544
55°	522	521	522	515	514	466
65°	331	341	347	334	322	328
75°	152	167	175	164	148	163
85°	26	34	38	36	34	34
90°	0	0	0	0	0	2
95°	17	69	310	107	66	20
105°	71	107	464	820	780	75
115°	132	159	352	746	876	130
125°	186	206	336	558	667	166
135°	227	246	332	471	532	175
145°	268	282	335	408	444	167
155°	306	313	343	368	384	141
165°	338	339	347	354	359	95
175°	354	352	351	349	346	34
180°	351	351	351	351	351	

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CATALOG NUMBER: SQ4-PW1-050U-075D-92765-1D-UNV-STD-W-4 (3500K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1169.3	1169.3	1169.3	1169.3	1169.3
2.5°	1175.9	1166.3	1169.3	1166.7	1161.1
5°	1172.4	1159.3	1163.2	1160.0	1158.0
7.5°	1160.5	1148.4	1151.2	1147.9	1146.7
10°	1149.8	1137.7	1140.5	1136.3	1134.3
12.5°	1137.4	1124.5	1127.3	1123.2	1122.0
15°	1115.8	1101.7	1103.4	1101.3	1099.3
17.5°	1090.6	1076.3	1076.6	1073.3	1072.9
20°	1072.5	1057.4	1056.0	1051.9	1054.0
22.5°	1052.7	1036.8	1035.4	1029.7	1032.5
25°	1020.0	1002.8	1001.4	995.3	998.3
27.5°	982.0	965.1	965.2	956.6	959.8
30°	954.0	937.9	939.6	929.4	933.4
32.5°	924.4	909.8	910.8	900.5	904.6
35°	876.8	864.7	864.4	856.2	859.2
37.5°	828.1	817.4	815.8	811.0	811.8
40°	794.3	785.3	782.0	778.9	778.9
42.5°	758.9	750.6	747.4	745.1	744.3
45°	704.7	698.7	695.4	693.3	692.3
47.5°	651.1	645.5	642.7	641.2	640.2
50°	614.0	610.0	608.9	605.8	604.8
52.5°	576.9	574.5	573.4	569.5	568.5
55°	522.3	521.3	522.3	515.1	514.1
57.5°	465.5	467.1	470.4	460.7	458.3
60°	427.6	431.6	435.8	424.4	420.3
62.5°	388.8	395.3	401.2	388.1	382.4
65°	330.7	340.8	347.2	333.6	322.5
67.5°	274.7	287.2	294.9	280.2	267.7
70°	235.9	250.0	258.6	243.9	229.7
72.5°	202.1	217.9	224.8	210.9	196.8
75°	152.5	166.6	175.1	163.5	148.4
77.5°	108.2	121.5	128.6	118.4	105.9
80°	79.3	93.4	98.9	90.4	80.4
82.5°	56.3	67.9	71.7	66.6	59.8
85°	25.8	33.8	38.1	36.0	34.0
87.5°	6.6	12.2	15.7	15.7	16.5
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.3	28.3	65.7	19.1	14.4
95°	17.4	69.0	310.0	107.3	66.1
97.5°	31.9	80.8	477.4	341.6	234.1
100°	42.1	87.8	513.7	520.4	400.8
102.5°	53.3	95.4	505.7	666.1	561.7
105°	70.8	107.4	464.3	820.1	779.6
107.5°	88.6	121.4	415.9	863.5	899.6
110°	100.9	131.6	388.1	846.9	927.9

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	112.6	141.8	369.4	807.6	923.1
115°	131.6	159.0	352.1	745.8	875.8
117.5°	148.3	174.0	341.8	678.3	815.9
120°	161.7	183.2	340.7	639.6	771.6
122.5°	172.4	193.9	338.0	605.8	728.3
125°	185.7	206.0	336.0	557.6	666.7
127.5°	200.3	219.2	335.0	528.9	618.7
130°	207.8	226.7	333.4	508.8	587.2
132.5°	215.8	234.2	333.4	493.2	565.3
135°	227.1	246.1	332.0	471.0	532.4
137.5°	237.8	256.2	331.9	452.3	505.3
140°	245.8	264.8	331.3	436.7	487.7
142.5°	254.9	270.7	333.0	424.3	470.0
145°	267.9	281.6	334.7	407.7	444.2
147.5°	279.0	292.3	337.6	390.9	422.5
150°	288.6	297.7	338.7	385.3	407.5
152.5°	296.1	305.7	339.8	377.8	398.4
155°	306.0	313.1	342.7	368.4	383.5
157.5°	318.3	322.6	343.4	364.2	374.9
160°	324.7	327.9	346.0	361.0	370.1
162.5°	328.4	332.2	346.6	358.2	365.3
165°	338.0	339.3	346.7	354.2	359.4
167.5°	344.6	343.4	349.8	353.2	355.3
170°	346.7	346.1	348.7	349.4	352.1
172.5°	351.5	349.3	350.3	348.4	350.5
175°	354.1	352.1	350.7	348.7	346.0
177.5°	355.1	352.0	350.3	348.2	348.7
180°	351.4	351.4	351.4	351.4	351.4

(END OF REPORT)