

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: P564619

Luminaire Tested: **SQ4-PW1-050U-050D-830-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564619
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-050D-830-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5551.7 lumens
Efficiency: N/A
Efficacy: 123.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

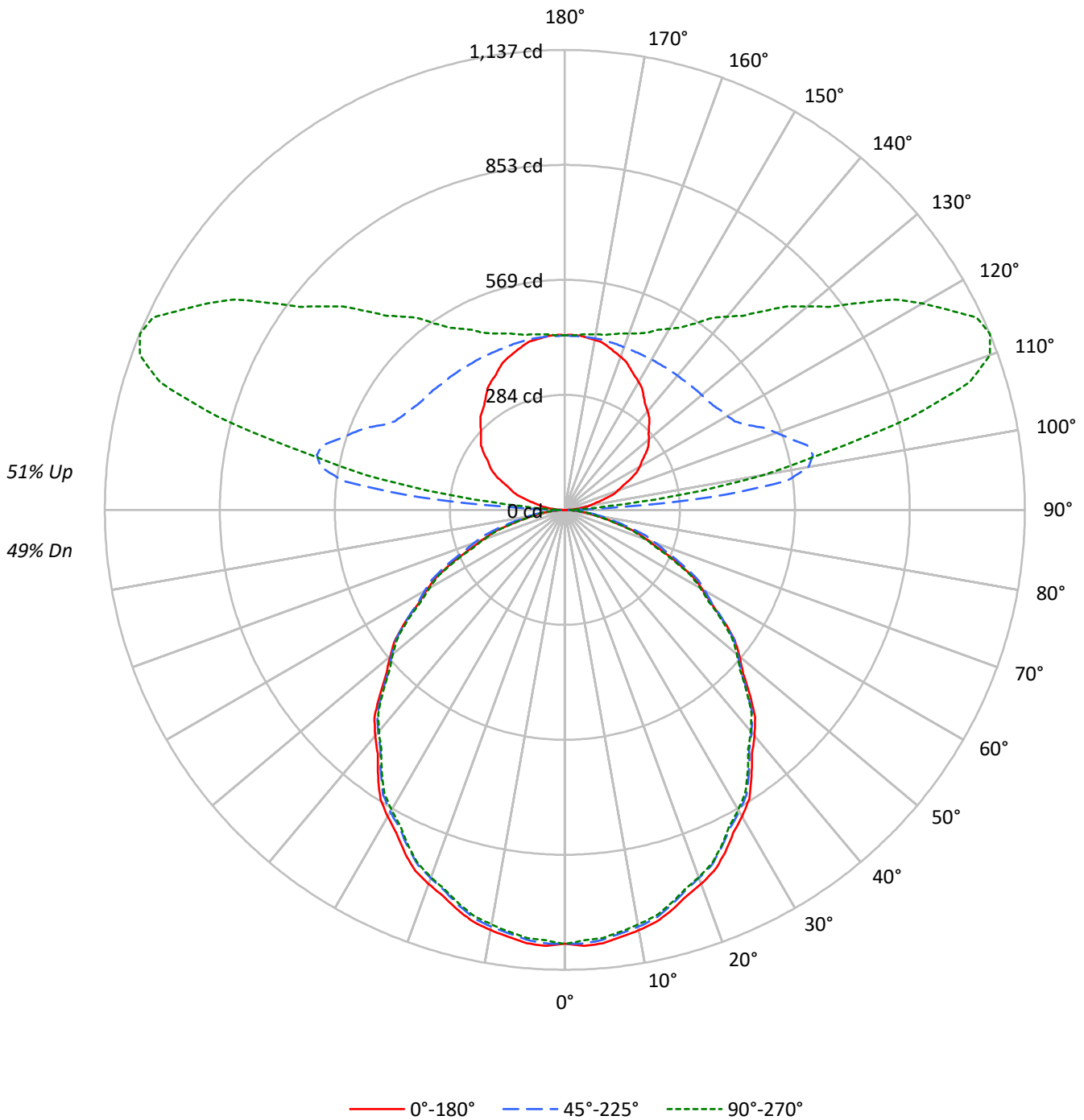
Input Watts (W): 44.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	55	55	55	49
1	98	93	90	86	90	86	83	80	73	70	68	60	59	57	49	48	47	42
2	89	82	76	70	82	75	70	66	64	60	57	53	50	48	43	41	40	35
3	81	72	65	59	75	66	60	55	56	52	48	47	44	41	38	36	34	30
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	34	32	29	26
5	68	57	49	43	63	53	45	40	45	39	35	38	33	30	31	28	25	22
6	63	51	43	37	58	47	40	35	40	35	31	34	30	26	28	25	22	19
7	58	46	38	32	53	43	36	31	37	31	27	31	27	23	26	22	20	17
8	54	42	34	29	50	39	32	27	33	28	24	28	24	21	24	20	18	15
9	50	38	31	26	46	35	29	24	31	25	21	26	22	19	22	19	16	14
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6599	6599	6599
5°	6642	6590	6560
10°	6589	6536	6501
15°	6519	6447	6423
20°	6441	6342	6330
25°	6352	6236	6217
30°	6217	6123	6082
35°	6041	5955	5920
40°	5852	5761	5739
45°	5624	5551	5525
50°	5391	5346	5310
55°	5140	5140	5058
60°	4826	4919	4745
65°	4416	4637	4307
70°	3893	4268	3791
75°	3325	3819	3234
80°	2579	3213	2611
85°	1666	2470	2202



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.0	1.8
10°-20°	285.2	5.1
20°-30°	423.1	7.6
30°-40°	495.1	8.9
40°-50°	492.9	8.9
50°-60°	425.6	7.7
60°-70°	306.4	5.5
70°-80°	160.7	2.9
80°-90°	41.5	0.7
90°-100°	207.4	3.7
100°-110°	563.3	10.1
110°-120°	579.1	10.4
120°-130°	463.0	8.3
130°-140°	363.8	6.6
140°-150°	279.0	5.0
150°-160°	200.6	3.6
160°-170°	122.7	2.2
170°-180°	41.3	0.7
0°-30°	809.4	14.6
0°-40°	1304.5	23.5
0°-60°	2222.9	40.0
0°-90°	2731.5	49.2
90°-120°	1349.8	24.3
90°-150°	2455.6	44.2
90°-180°	2820.0	50.8
0°-180°	5551.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1073	1073	1073	1073	1073	
5°	1076	1064	1067	1064	1062	102
15°	1024	1011	1012	1010	1009	289
25°	936	920	919	913	916	430
35°	804	793	793	786	788	503
45°	647	641	638	636	635	499
55°	479	478	479	473	472	428
65°	303	313	319	306	296	301
75°	140	153	161	150	136	150
85°	24	31	35	33	31	31
90°	1	6	10	12	12	3
95°	31	113	361	157	106	32
105°	100	156	619	943	888	106
115°	178	216	496	986	1124	175
125°	244	278	449	756	892	218
135°	294	327	436	616	694	228
145°	340	365	430	523	562	214
155°	385	398	428	470	483	177
165°	417	422	429	447	449	118
175°	432	433	430	436	435	41
180°	432	432	432	432	432	

TEST NUMBER: P564619

CATALOG NUMBER: SQ4-PW1-050U-050D-830-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1072.9	1072.9	1072.9	1072.9	1072.9
2.5°	1079.0	1070.1	1072.9	1070.5	1065.4
5°	1075.8	1063.7	1067.3	1064.4	1062.5
7.5°	1064.8	1053.7	1056.3	1053.2	1052.1
10°	1055.0	1043.9	1046.5	1042.6	1040.8
12.5°	1043.6	1031.8	1034.4	1030.5	1029.4
15°	1023.8	1010.8	1012.4	1010.5	1008.6
17.5°	1000.7	987.6	987.8	984.8	984.4
20°	984.1	970.2	968.9	965.2	967.0
22.5°	965.9	951.3	950.0	944.8	947.4
25°	935.9	920.1	918.8	913.2	916.0
27.5°	901.1	885.5	885.6	877.7	880.6
30°	875.4	860.6	862.1	852.8	856.4
32.5°	848.1	834.8	835.7	826.3	830.0
35°	804.5	793.4	793.1	785.6	788.4
37.5°	759.8	750.0	748.5	744.2	744.9
40°	728.8	720.5	717.5	714.7	714.7
42.5°	696.3	688.7	685.7	683.6	682.9
45°	646.6	641.0	638.1	636.2	635.2
47.5°	597.4	592.3	589.7	588.3	587.4
50°	563.4	559.7	558.7	555.8	554.9
52.5°	529.4	527.2	526.2	522.5	521.6
55°	479.3	478.3	479.3	472.6	471.7
57.5°	427.1	428.6	431.6	422.7	420.5
60°	392.3	396.0	399.9	389.4	385.7
62.5°	356.8	362.7	368.1	356.1	350.9
65°	303.4	312.7	318.6	306.0	295.9
67.5°	252.0	263.5	270.5	257.1	245.6
70°	216.5	229.4	237.3	223.7	210.8
72.5°	185.5	199.9	206.3	193.5	180.6
75°	139.9	152.8	160.7	150.0	136.1
77.5°	99.3	111.5	118.0	108.6	97.2
80°	72.8	85.7	90.7	83.0	73.7
82.5°	51.6	62.3	65.8	61.1	54.8
85°	23.6	31.0	35.0	33.0	31.2
87.5°	6.3	12.3	16.3	16.9	17.6
90°	1.4	5.5	9.7	12.5	12.5
92.5°	12.5	56.8	98.6	42.4	35.8
95°	30.6	113.4	361.1	157.2	105.6
97.5°	50.6	125.2	553.6	430.7	302.5
100°	63.9	133.1	612.5	620.9	501.4
102.5°	77.2	141.0	628.0	767.9	662.5
105°	100.0	155.7	619.4	943.2	887.5
107.5°	123.6	172.8	583.6	1033.7	1049.1
110°	140.3	185.1	556.9	1051.5	1118.0



TEST NUMBER: P564619

CATALOG NUMBER: SQ4-PW1-050U-050D-830-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	154.7	197.4	530.3	1036.7	1136.9
115°	177.8	215.8	495.8	986.4	1123.6
117.5°	199.4	235.8	473.9	915.2	1069.7
120°	213.9	249.2	463.9	867.4	1020.8
122.5°	226.1	261.4	457.2	819.5	967.5
125°	244.4	278.4	448.6	755.8	891.6
127.5°	260.8	294.5	443.9	707.6	824.2
130°	270.8	303.4	441.7	677.4	781.9
132.5°	280.8	313.4	439.4	651.5	744.2
135°	294.4	327.0	436.1	615.7	694.4
137.5°	309.2	338.8	434.4	584.0	650.3
140°	318.0	346.6	433.3	563.8	623.6
142.5°	326.9	353.3	432.2	548.1	598.0
145°	340.3	364.7	430.5	523.1	562.5
147.5°	355.3	376.2	429.2	503.5	534.4
150°	365.3	382.9	429.2	492.2	516.7
152.5°	373.0	388.5	428.0	482.1	502.2
155°	384.7	398.3	427.8	469.7	483.3
157.5°	396.1	406.7	427.8	461.3	471.7
160°	402.8	412.3	427.8	455.7	463.9
162.5°	409.4	416.8	428.9	451.2	457.2
165°	416.7	422.1	429.2	447.2	448.6
167.5°	424.2	426.9	430.5	442.5	443.6
170°	426.4	429.1	430.5	440.3	440.3
172.5°	428.6	430.2	430.5	438.0	438.0
175°	431.9	433.3	430.5	436.1	434.7
177.5°	433.0	433.0	429.7	434.1	431.9
180°	431.9	431.9	431.9	431.9	431.9

(END OF REPORT)