

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: P563967

Luminaire Tested: **SQ4-PR1-050U-050D-940-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563967
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-050U-050D-940-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

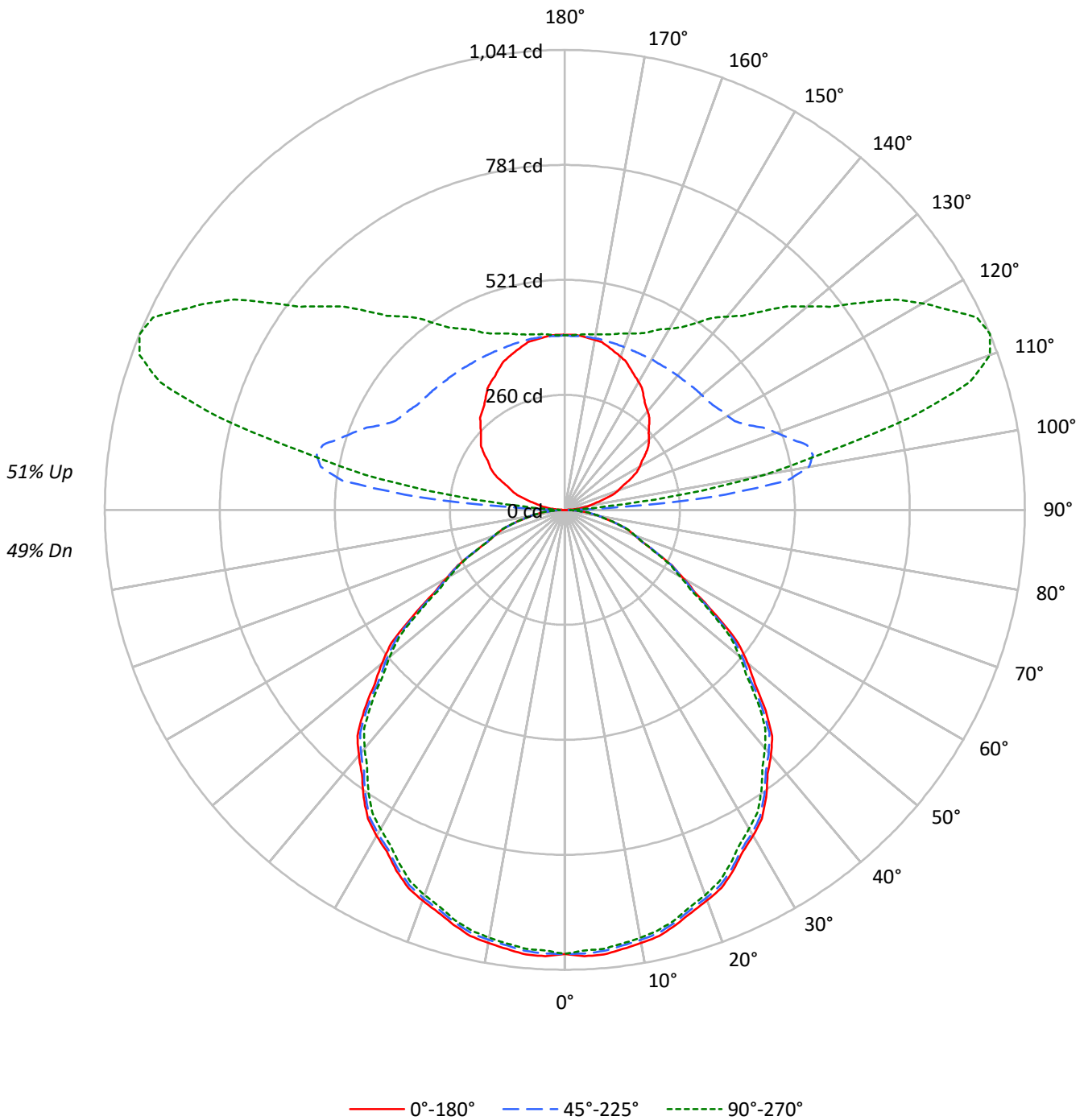
Lumens per Lamp: N/A
Luminaire Lumens: 5097.3 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

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	56	56	56	49
1	98	94	90	86	90	87	83	80	73	71	69	61	59	58	49	48	47	42
2	89	82	76	71	82	76	71	66	64	61	57	54	51	49	44	42	40	36
3	82	72	65	60	75	67	61	56	57	52	48	48	44	41	39	37	35	31
4	75	64	56	51	69	60	53	48	51	46	42	43	39	36	35	32	30	26
5	69	57	49	43	63	53	46	41	46	40	36	38	34	31	32	29	26	23
6	63	51	43	38	58	48	41	36	41	36	31	35	31	27	29	26	23	20
7	59	47	39	33	54	43	36	31	37	32	28	32	27	24	26	23	21	18
8	54	42	35	29	50	39	33	28	34	29	25	29	25	22	24	21	19	16
9	51	39	31	26	47	36	29	25	31	26	22	27	22	19	22	19	17	15
10	47	35	28	23	44	33	27	22	29	24	20	25	20	18	21	18	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6183	6183	6183
5°	6239	6190	6158
10°	6218	6175	6143
15°	6191	6153	6119
20°	6160	6120	6075
25°	6117	6075	6005
30°	6050	6008	5921
35°	5961	5909	5825
40°	5825	5763	5658
45°	5588	5490	5377
50°	5169	5046	4946
55°	4512	4410	4317
60°	3802	3770	3695
65°	3289	3301	3276
70°	3021	3036	3036
75°	2902	2902	2921
80°	2731	2759	2731
85°	2202	2442	2442



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.1	1.9
10°-20°	272.0	5.3
20°-30°	410.2	8.0
30°-40°	488.8	9.6
40°-50°	481.9	9.5
50°-60°	368.3	7.2
60°-70°	227.9	4.5
70°-80°	129.4	2.5
80°-90°	40.9	0.8
90°-100°	189.9	3.7
100°-110°	515.9	10.1
110°-120°	530.4	10.4
120°-130°	424.1	8.3
130°-140°	333.2	6.5
140°-150°	255.5	5.0
150°-160°	183.7	3.6
160°-170°	112.4	2.2
170°-180°	37.9	0.7
0°-30°	777.2	15.2
0°-40°	1266.0	24.8
0°-60°	2116.1	41.5
0°-90°	2514.3	49.3
90°-120°	1236.2	24.3
90°-150°	2249.0	44.1
90°-180°	2583.0	50.7
0°-180°	5097.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1005	1005	1005	1005	1005	
5°	1010	999	1003	999	997	96
15°	972	962	966	963	961	274
25°	901	890	895	886	885	415
35°	794	785	787	777	776	495
45°	642	634	631	620	618	492
55°	421	414	411	404	403	377
65°	226	224	227	225	225	229
75°	122	122	122	123	123	129
85°	31	33	35	35	35	36
90°	1	5	9	11	11	3
95°	28	104	331	144	97	30
105°	92	143	567	864	813	97
115°	163	198	454	903	1029	161
125°	224	255	411	692	817	200
135°	270	300	399	564	636	209
145°	312	334	394	479	515	196
155°	352	365	392	430	443	162
165°	382	387	393	410	411	108
175°	396	397	394	399	398	38
180°	396	396	396	396	396	

TEST NUMBER: P563967

CATALOG NUMBER: SQ4-PR1-050U-050D-940-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1005.2	1005.2	1005.2	1005.2	1005.2
2.5°	1011.4	1002.6	1005.2	1003.0	998.2
5°	1010.4	999.4	1002.6	999.1	997.4
7.5°	1002.6	991.7	994.9	991.5	990.4
10°	995.6	985.5	988.7	985.2	983.5
12.5°	988.0	977.2	981.1	976.9	975.2
15°	972.3	962.1	966.2	962.7	961.0
17.5°	954.9	944.1	948.2	944.2	942.0
20°	941.1	930.9	935.0	929.0	928.1
22.5°	925.9	915.7	919.8	911.7	911.5
25°	901.3	890.3	895.2	885.7	884.8
27.5°	872.0	861.8	865.9	856.2	855.2
30°	851.9	841.8	845.9	835.4	833.7
32.5°	829.1	819.6	823.0	812.6	811.6
35°	793.9	784.6	787.0	776.6	775.7
37.5°	753.9	745.5	746.8	735.4	734.5
40°	725.5	717.1	717.7	705.6	704.7
42.5°	694.4	685.9	685.2	673.0	672.2
45°	642.4	633.9	631.1	619.9	618.2
47.5°	583.2	574.7	569.5	560.3	559.1
50°	540.2	531.8	527.3	519.4	516.9
52.5°	493.8	485.4	481.5	474.4	471.8
55°	420.8	414.0	411.2	404.3	402.6
57.5°	351.3	346.8	346.0	339.2	338.5
60°	309.1	306.5	306.5	300.4	300.4
62.5°	273.1	271.2	272.5	268.5	267.9
65°	226.0	224.3	226.8	225.1	225.1
67.5°	188.7	188.7	190.3	189.6	189.6
70°	168.0	168.0	168.8	168.8	168.8
72.5°	149.3	148.6	150.8	150.8	150.1
75°	122.1	122.1	122.1	122.9	122.9
77.5°	95.1	95.2	95.9	95.7	95.1
80°	77.1	77.9	77.9	77.1	77.1
82.5°	59.0	59.9	59.9	59.7	59.0
85°	31.2	32.9	34.6	34.6	34.6
87.5°	9.3	12.7	15.6	16.1	15.4
90°	1.3	5.0	8.9	11.4	11.4
92.5°	11.4	52.0	90.3	38.8	32.8
95°	28.0	103.9	330.7	143.9	96.7
97.5°	46.3	114.7	507.0	394.5	277.0
100°	58.5	121.9	561.0	568.6	459.2
102.5°	70.7	129.2	575.2	703.3	606.8
105°	91.6	142.6	567.3	863.8	812.8
107.5°	113.2	158.2	534.5	946.7	960.9
110°	128.5	169.5	510.1	963.0	1024.0



TEST NUMBER: P563967

CATALOG NUMBER: SQ4-PR1-050U-050D-940-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	141.7	180.8	485.7	949.5	1041.3
115°	162.8	197.6	454.1	903.4	1029.1
117.5°	182.7	216.0	434.0	838.2	979.7
120°	195.9	228.2	424.9	794.4	934.9
122.5°	207.1	239.4	418.7	750.5	886.1
125°	223.9	255.0	410.9	692.3	816.6
127.5°	238.9	269.7	406.5	648.1	754.8
130°	248.0	277.9	404.5	620.4	716.1
132.5°	257.2	287.1	402.5	596.7	681.5
135°	269.7	299.5	399.4	563.9	636.0
137.5°	283.2	310.3	397.9	534.9	595.6
140°	291.3	317.4	396.9	516.4	571.1
142.5°	299.4	323.6	395.9	502.0	547.7
145°	311.6	334.0	394.3	479.1	515.2
147.5°	325.4	344.5	393.1	461.1	489.5
150°	334.5	350.7	393.1	450.8	473.2
152.5°	341.7	355.8	392.0	441.6	460.0
155°	352.3	364.8	391.8	430.2	442.7
157.5°	362.8	372.5	391.8	422.5	432.0
160°	368.9	377.6	391.8	417.4	424.9
162.5°	375.0	381.7	392.8	413.3	418.7
165°	381.6	386.6	393.1	409.6	410.9
167.5°	388.5	391.0	394.3	405.3	406.3
170°	390.5	393.0	394.3	403.2	403.2
172.5°	392.5	394.0	394.3	401.2	401.2
175°	395.6	396.8	394.3	399.4	398.1
177.5°	396.6	396.6	393.6	397.6	395.6
180°	395.6	395.6	395.6	395.6	395.6

(END OF REPORT)