

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: P562351

Luminaire Tested: **SQ4-PW1-100U-050D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562351
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-PW1-100U-050D-92765-1D-UNV-STD-W-4 (3500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

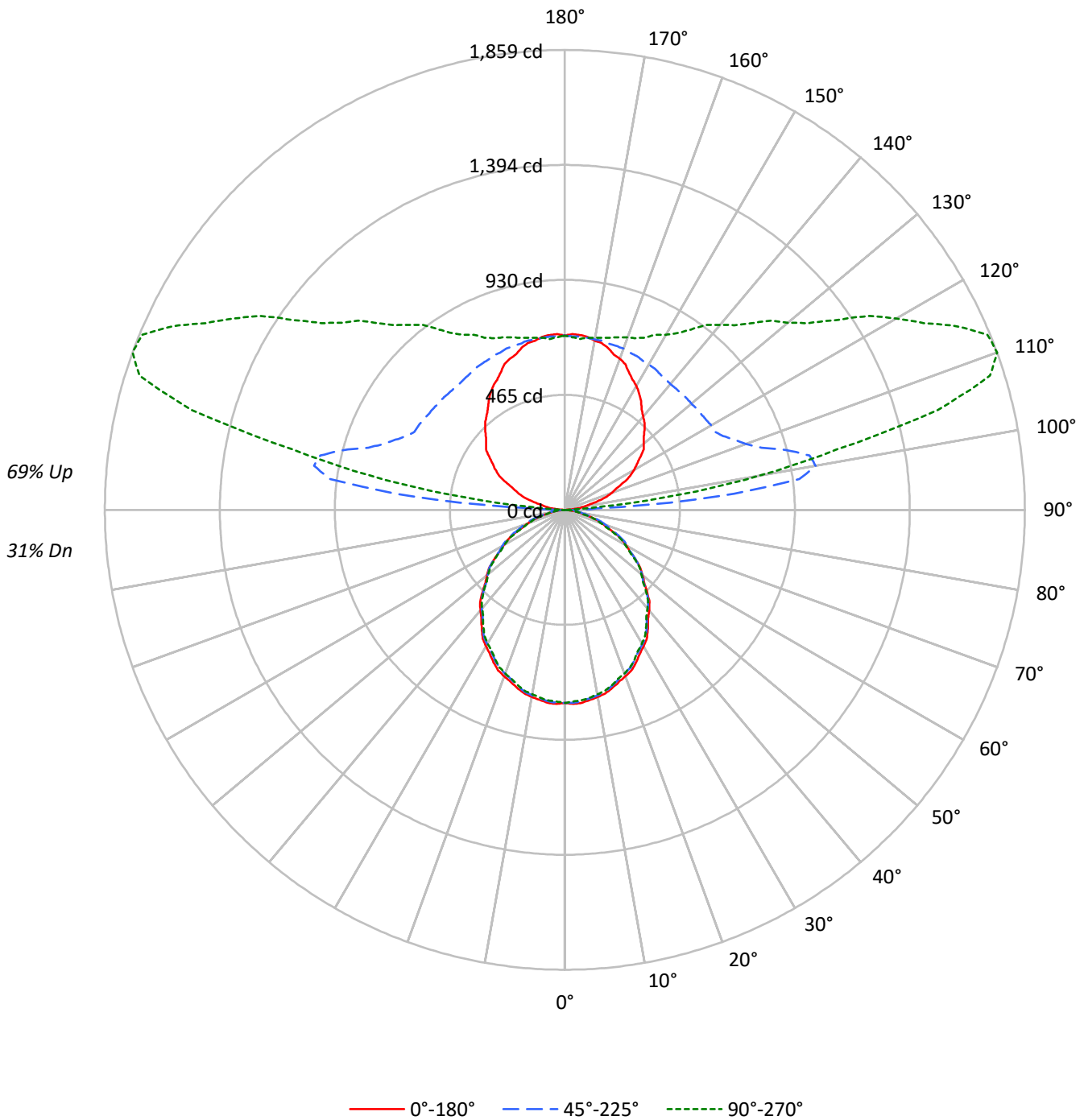
Lumens per Lamp: N/A
Luminaire Lumens: 6359.1 lumens
Efficiency: N/A
Efficacy: 119.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 53.1
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: P562351
CATALOG NUMBER: SQ4-PW1-100U-050D-92765-1D-UNV-STD-W-4 (3500K)

Luminous Intensity Polar Plot





TEST NUMBER: P562351

CATALOG NUMBER: SQ4-PW1-100U-050D-92765-1D-UNV-STD-W-4 (3500K)

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	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	31
1	94	89	86	82	84	81	77	75	64	62	60	49	47	46	34	34	33	26
2	85	78	72	67	76	70	65	61	56	53	50	43	40	38	30	29	28	22
3	78	69	62	56	70	62	56	51	49	45	42	38	35	33	27	25	24	19
4	71	61	53	47	64	55	48	43	44	39	35	34	30	28	24	22	20	16
5	65	54	46	40	58	49	42	37	39	34	30	30	27	24	22	19	18	14
6	60	48	40	35	54	44	37	32	35	30	26	27	24	21	20	17	16	12
7	55	43	36	30	50	39	33	28	32	27	23	25	21	18	18	16	14	11
8	51	39	32	27	46	36	29	25	29	24	20	22	19	16	16	14	12	10
9	48	36	29	24	43	33	26	22	26	22	18	21	17	15	15	13	11	9
10	44	33	26	21	40	30	24	19	24	20	16	19	16	13	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7204	7204	7204
5°	7251	7193	7161
10°	7192	7134	7096
15°	7116	7038	7011
20°	7031	6923	6910
25°	6933	6807	6786
30°	6786	6684	6640
35°	6593	6501	6462
40°	6388	6288	6264
45°	6139	6059	6032
50°	5885	5836	5796
55°	5611	5611	5522
60°	5268	5370	5180
65°	4820	5060	4700
70°	4249	4659	4138
75°	3629	4167	3533
80°	2816	3507	2853
85°	1821	2699	2403



TEST NUMBER: P562351

CATALOG NUMBER: SQ4-PW1-100U-050D-92765-1D-UNV-STD-W-4 (3500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.5	1.2
10°-20°	207.6	3.3
20°-30°	307.9	4.8
30°-40°	360.3	5.7
40°-50°	358.7	5.6
50°-60°	309.7	4.9
60°-70°	223.0	3.5
70°-80°	116.9	1.8
80°-90°	29.0	0.5
90°-100°	320.7	5.0
100°-110°	912.7	14.4
110°-120°	874.4	13.8
120°-130°	692.1	10.9
130°-140°	555.5	8.7
140°-150°	434.9	6.8
150°-160°	318.2	5.0
160°-170°	197.1	3.1
170°-180°	66.9	1.1
0°-30°	589.0	9.3
0°-40°	949.3	14.9
0°-60°	1617.7	25.4
0°-90°	1986.6	31.2
90°-120°	2107.9	33.1
90°-150°	3790.4	59.6
90°-180°	4373.0	68.8
0°-180°	6359.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	781	781	781	781	781	
5°	783	774	777	775	773	74
15°	745	736	737	735	734	210
25°	681	670	669	665	667	313
35°	585	577	577	572	574	366
45°	470	466	464	463	462	363
55°	349	348	349	344	343	311
65°	221	228	232	223	215	219
75°	102	111	117	109	99	109
85°	17	23	26	24	23	23
90°	0	0	0	0	0	2
95°	35	138	621	215	132	40
105°	142	215	930	1643	1562	150
115°	264	319	705	1494	1754	260
125°	372	413	673	1117	1336	333
135°	455	493	665	944	1067	351
145°	537	564	670	817	890	335
155°	613	627	686	738	768	283
165°	677	680	695	710	720	190
175°	709	705	703	698	693	67
180°	704	704	704	704	704	



TEST NUMBER: P562351

CATALOG NUMBER: SQ4-PW1-100U-050D-92765-1D-UNV-STD-W-4 (3500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	780.8	780.8	780.8	780.8	780.8
2.5°	785.2	778.7	780.8	779.1	775.3
5°	782.9	774.1	776.7	774.6	773.2
7.5°	774.9	766.8	768.7	766.5	765.7
10°	767.7	759.7	761.5	758.8	757.4
12.5°	759.5	750.9	752.7	750.0	749.2
15°	745.0	735.6	736.8	735.4	734.0
17.5°	728.2	718.7	718.9	716.7	716.4
20°	716.1	706.0	705.1	702.4	703.8
22.5°	702.9	692.3	691.4	687.6	689.4
25°	681.0	669.6	668.7	664.6	666.6
27.5°	655.7	644.4	644.5	638.7	640.9
30°	637.0	626.3	627.4	620.6	623.3
32.5°	617.2	607.5	608.1	601.3	604.0
35°	585.4	577.4	577.2	571.7	573.7
37.5°	553.0	545.8	544.7	541.5	542.1
40°	530.4	524.3	522.1	520.1	520.1
42.5°	506.7	501.2	499.0	497.5	497.0
45°	470.5	466.5	464.4	463.0	462.3
47.5°	434.8	431.0	429.1	428.2	427.5
50°	410.0	407.3	406.6	404.5	403.8
52.5°	385.2	383.6	382.9	380.3	379.6
55°	348.8	348.1	348.8	343.9	343.3
57.5°	310.8	311.9	314.1	307.6	306.0
60°	285.5	288.2	291.0	283.4	280.7
62.5°	259.6	263.9	267.9	259.1	255.4
65°	220.8	227.6	231.8	222.7	215.3
67.5°	183.4	191.7	196.9	187.1	178.7
70°	157.5	167.0	172.7	162.8	153.4
72.5°	135.0	145.5	150.1	140.8	131.4
75°	101.8	111.2	116.9	109.2	99.1
77.5°	72.2	81.1	85.9	79.1	70.7
80°	53.0	62.4	66.0	60.4	53.7
82.5°	37.6	45.4	47.9	44.5	39.9
85°	17.2	22.6	25.5	24.0	22.7
87.5°	4.4	8.2	10.5	10.5	11.0
90°	0.0	0.0	0.0	0.0	0.0
92.5°	10.7	56.8	131.7	38.3	28.9
95°	34.8	138.2	620.9	214.9	132.5
97.5°	64.0	161.8	956.3	684.3	468.9
100°	84.3	175.9	1029.1	1042.4	802.9
102.5°	106.8	191.1	1013.1	1334.3	1125.2
105°	141.9	215.1	930.1	1642.9	1561.7
107.5°	177.5	243.1	833.2	1729.9	1802.1
110°	202.1	263.6	777.5	1696.6	1858.8

TEST NUMBER: P562351

CATALOG NUMBER: SQ4-PW1-100U-050D-92765-1D-UNV-STD-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	225.6	284.0	740.1	1617.8	1849.2
115°	263.6	318.6	705.3	1494.1	1754.4
117.5°	297.1	348.6	684.6	1358.7	1634.5
120°	323.9	367.0	682.5	1281.4	1545.7
122.5°	345.3	388.4	677.2	1213.5	1459.0
125°	372.0	412.6	673.1	1117.1	1335.6
127.5°	401.2	439.2	671.0	1059.4	1239.5
130°	416.2	454.1	667.8	1019.3	1176.3
132.5°	432.3	469.2	667.8	988.0	1132.4
135°	455.0	493.0	665.1	943.6	1066.6
137.5°	476.4	513.3	664.8	906.0	1012.3
140°	492.5	530.4	663.8	874.9	976.9
142.5°	510.7	542.3	667.0	850.0	941.6
145°	536.6	564.1	670.5	816.7	889.9
147.5°	558.9	585.5	676.4	783.0	846.3
150°	578.1	596.4	678.5	771.8	816.3
152.5°	593.1	612.5	680.6	756.8	798.1
155°	612.9	627.3	686.5	738.1	768.2
157.5°	637.5	646.2	687.9	729.6	751.0
160°	650.4	656.9	693.2	723.1	741.4
162.5°	657.9	665.5	694.3	717.6	731.8
165°	677.2	679.8	694.6	709.5	720.0
167.5°	690.3	687.9	700.7	707.5	711.7
170°	694.6	693.2	698.6	700.0	705.3
172.5°	704.2	699.7	701.8	697.9	702.0
175°	709.3	705.3	702.6	698.4	693.2
177.5°	711.4	705.1	701.8	697.5	698.6
180°	703.9	703.9	703.9	703.9	703.9

(END OF REPORT)