

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: P562349

Luminaire Tested: **SQ4-PW1-100U-050D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562349
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 (2700K)
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 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

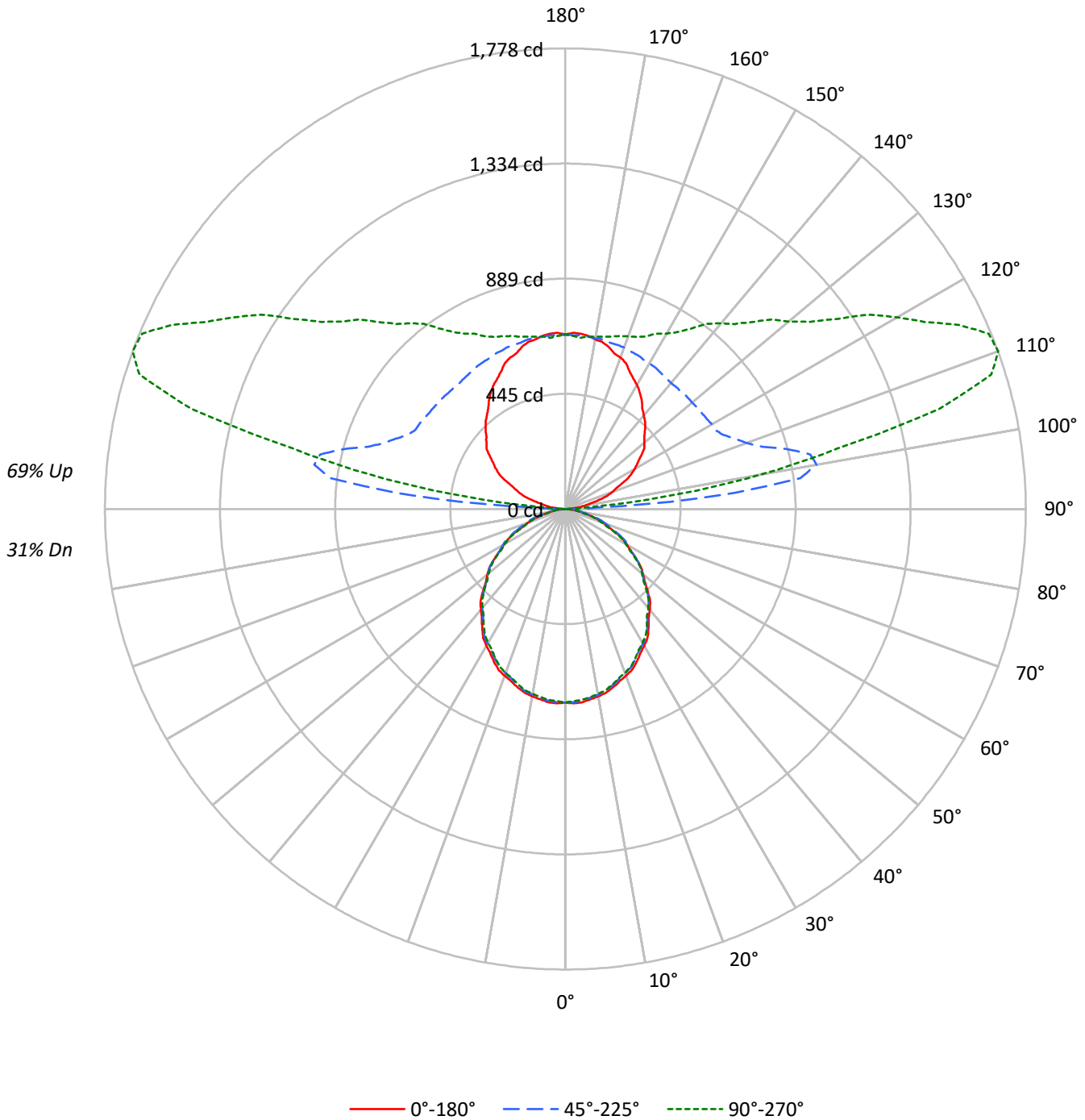
Lumens per Lamp: N/A
Luminaire Lumens: 6083.9 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 52.9
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	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°	6892	6892	6892
5°	6937	6882	6852
10°	6881	6826	6788
15°	6808	6733	6708
20°	6728	6623	6611
25°	6633	6512	6493
30°	6493	6394	6353
35°	6308	6219	6182
40°	6111	6016	5993
45°	5874	5797	5771
50°	5631	5583	5545
55°	5368	5368	5282
60°	5039	5137	4954
65°	4613	4842	4497
70°	4065	4456	3960
75°	3472	3989	3379
80°	2694	3358	2726
85°	1747	2583	2297



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.3	1.2
10°-20°	198.6	3.3
20°-30°	294.6	4.8
30°-40°	344.7	5.7
40°-50°	343.2	5.6
50°-60°	296.3	4.9
60°-70°	213.3	3.5
70°-80°	111.9	1.8
80°-90°	27.7	0.5
90°-100°	306.9	5.0
100°-110°	873.2	14.4
110°-120°	836.6	13.8
120°-130°	662.1	10.9
130°-140°	531.5	8.7
140°-150°	416.1	6.8
150°-160°	304.4	5.0
160°-170°	188.6	3.1
170°-180°	64.0	1.1
0°-30°	563.5	9.3
0°-40°	908.2	14.9
0°-60°	1547.7	25.4
0°-90°	1900.6	31.2
90°-120°	2016.7	33.1
90°-150°	3626.3	59.6
90°-180°	4183.0	68.8
0°-180°	6083.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	747	747	747	747	747	
5°	749	741	743	741	740	71
15°	713	704	705	704	702	201
25°	652	641	640	636	638	300
35°	560	552	552	547	549	350
45°	450	446	444	443	442	347
55°	334	333	334	329	328	298
65°	211	218	222	213	206	209
75°	97	106	112	104	95	104
85°	16	22	24	23	22	22
90°	0	0	0	0	0	2
95°	33	132	594	206	127	38
105°	136	206	890	1572	1494	144
115°	252	305	675	1429	1678	248
125°	356	395	644	1069	1278	319
135°	435	472	636	903	1020	336
145°	513	540	642	781	851	321
155°	586	600	657	706	735	271
165°	648	650	664	679	689	182
175°	679	675	672	668	663	64
180°	674	674	674	674	674	

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CATALOG NUMBER: SQ4-PW1-100U-050D-92765-1D-UNV-STD-W-4 (2700K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	747.0	747.0	747.0	747.0	747.0
2.5°	751.2	745.1	747.0	745.4	741.8
5°	749.0	740.6	743.1	741.1	739.8
7.5°	741.4	733.6	735.4	733.3	732.5
10°	734.5	726.8	728.6	725.9	724.6
12.5°	726.6	718.4	720.2	717.5	716.7
15°	712.8	703.8	704.9	703.6	702.3
17.5°	696.7	687.6	687.8	685.7	685.4
20°	685.2	675.5	674.6	672.0	673.3
22.5°	672.5	662.3	661.5	657.8	659.6
25°	651.6	640.6	639.7	635.8	637.8
27.5°	627.4	616.6	616.6	611.1	613.1
30°	609.5	599.2	600.2	593.7	596.3
32.5°	590.5	581.2	581.8	575.3	577.9
35°	560.1	552.4	552.2	547.0	548.9
37.5°	529.0	522.2	521.1	518.1	518.6
40°	507.4	501.7	499.5	497.6	497.6
42.5°	484.8	479.5	477.4	476.0	475.5
45°	450.2	446.3	444.3	442.9	442.3
47.5°	416.0	412.4	410.6	409.6	409.0
50°	392.3	389.7	389.0	387.0	386.3
52.5°	368.6	367.0	366.3	363.8	363.2
55°	333.7	333.0	333.7	329.1	328.4
57.5°	297.4	298.4	300.5	294.3	292.8
60°	273.1	275.7	278.4	271.1	268.5
62.5°	248.4	252.5	256.3	247.9	244.3
65°	211.3	217.7	221.8	213.1	206.0
67.5°	175.5	183.4	188.4	179.0	171.0
70°	150.7	159.7	165.2	155.8	146.8
72.5°	129.1	139.2	143.6	134.7	125.7
75°	97.4	106.4	111.9	104.4	94.8
77.5°	69.1	77.6	82.1	75.6	67.7
80°	50.7	59.7	63.2	57.8	51.3
82.5°	35.9	43.4	45.8	42.5	38.2
85°	16.5	21.6	24.4	23.0	21.7
87.5°	4.2	7.8	10.0	10.0	10.5
90°	0.0	0.0	0.0	0.0	0.0
92.5°	10.2	54.3	126.0	36.7	27.7
95°	33.3	132.2	594.1	205.6	126.8
97.5°	61.2	154.8	914.9	654.7	448.6
100°	80.7	168.3	984.6	997.3	768.2
102.5°	102.2	182.8	969.2	1276.6	1076.5
105°	135.7	205.8	889.8	1571.8	1494.2
107.5°	169.8	232.6	797.1	1655.0	1724.1
110°	193.3	252.2	743.9	1623.2	1778.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	215.9	271.7	708.0	1547.9	1769.2
115°	252.2	304.8	674.7	1429.4	1678.5
117.5°	284.2	333.6	655.0	1299.9	1563.8
120°	309.8	351.2	653.0	1225.9	1478.8
122.5°	330.3	371.6	647.9	1161.0	1395.8
125°	355.9	394.7	644.0	1068.7	1277.8
127.5°	383.8	420.2	642.0	1013.6	1185.9
130°	398.2	434.5	638.9	975.2	1125.4
132.5°	413.6	448.9	638.9	945.2	1083.4
135°	435.3	471.6	636.3	902.8	1020.4
137.5°	455.8	491.1	636.1	866.8	968.5
140°	471.2	507.5	635.1	837.0	934.7
142.5°	488.6	518.9	638.1	813.2	900.9
145°	513.4	539.7	641.5	781.3	851.4
147.5°	534.7	560.2	647.1	749.1	809.7
150°	553.1	570.6	649.1	738.5	781.0
152.5°	567.5	586.0	651.2	724.0	763.6
155°	586.4	600.2	656.8	706.1	734.9
157.5°	610.0	618.2	658.1	698.0	718.5
160°	622.3	628.5	663.2	691.8	709.3
162.5°	629.4	636.7	664.2	686.6	700.1
165°	647.9	650.4	664.5	678.8	688.8
167.5°	660.4	658.2	670.4	676.9	680.9
170°	664.5	663.3	668.3	669.7	674.7
172.5°	673.7	669.5	671.4	667.7	671.7
175°	678.6	674.8	672.2	668.2	663.2
177.5°	680.6	674.6	671.4	667.3	668.3
180°	673.5	673.5	673.5	673.5	673.5

(END OF REPORT)