

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: P562350

Luminaire Tested: **SQ4-PW1-100U-050D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562350  
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 (3000K)  
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 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

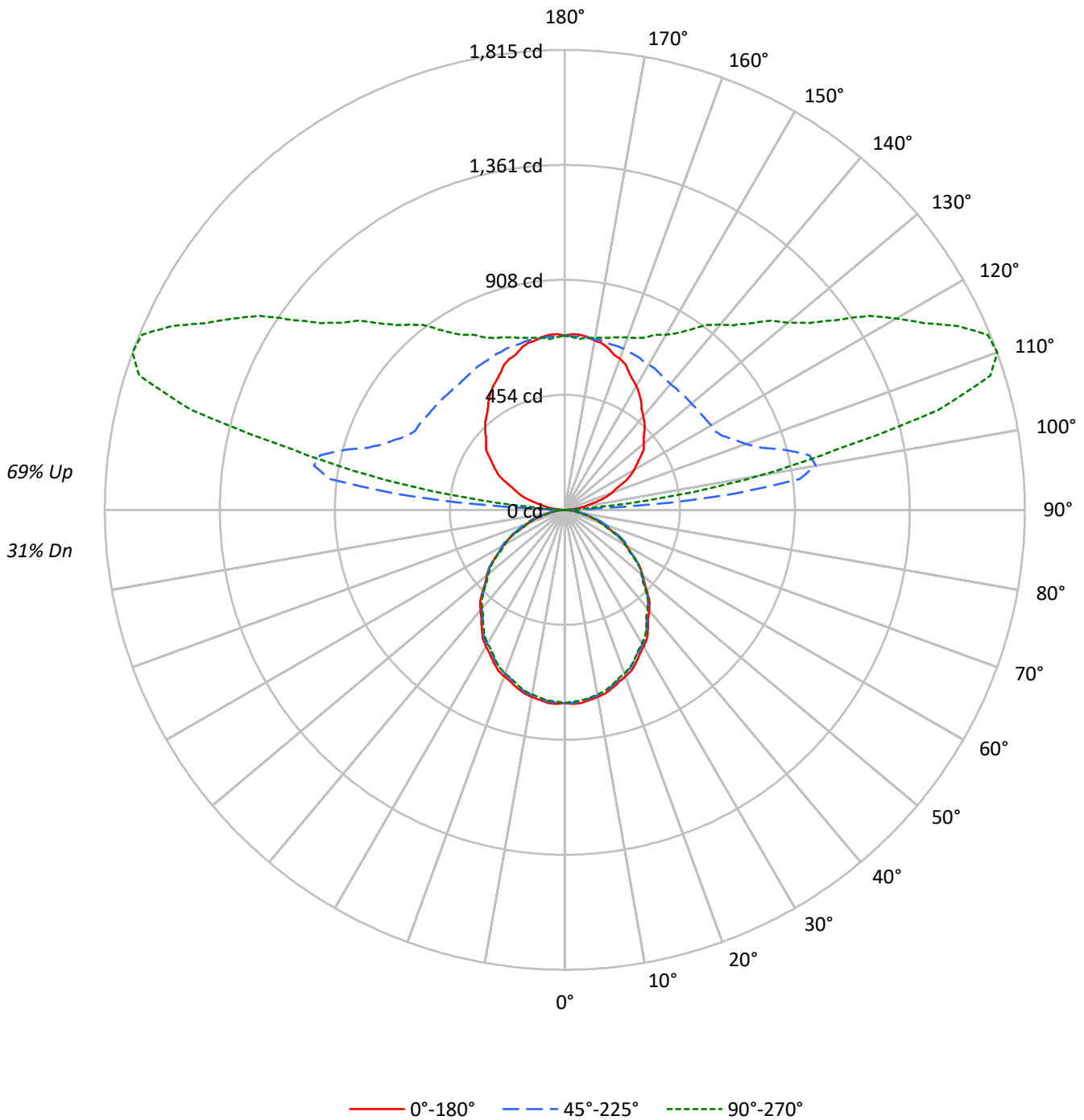
Lumens per Lamp: N/A  
Luminaire Lumens: 6210.0 lumens  
Efficiency: N/A  
Efficacy: 117.0 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 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



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20				
RC	80					70					50					30				
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°	7035	7035	7035
5°	7080	7025	6993
10°	7024	6967	6930
15°	6950	6872	6847
20°	6867	6761	6748
25°	6771	6648	6627
30°	6628	6527	6485
35°	6439	6348	6311
40°	6239	6141	6117
45°	5995	5917	5891
50°	5747	5698	5661
55°	5479	5479	5392
60°	5145	5244	5058
65°	4709	4943	4591
70°	4149	4548	4041
75°	3543	4071	3447
80°	2747	3427	2784
85°	1778	2636	2350



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.8	1.2
10°-20°	202.7	3.3
20°-30°	300.7	4.8
30°-40°	351.8	5.7
40°-50°	350.3	5.6
50°-60°	302.5	4.9
60°-70°	217.7	3.5
70°-80°	114.2	1.8
80°-90°	28.3	0.5
90°-100°	313.2	5.0
100°-110°	891.3	14.4
110°-120°	853.9	13.8
120°-130°	675.9	10.9
130°-140°	542.5	8.7
140°-150°	424.7	6.8
150°-160°	310.7	5.0
160°-170°	192.5	3.1
170°-180°	65.3	1.1
0°-30°	575.2	9.3
0°-40°	927.0	14.9
0°-60°	1579.8	25.4
0°-90°	1940.0	31.2
90°-120°	2058.5	33.1
90°-150°	3701.5	59.6
90°-180°	4270.0	68.8
0°-180°	6210.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	762	762	762	762	762	
5°	764	756	758	756	755	72
15°	728	718	720	718	717	205
25°	665	654	653	649	651	306
35°	572	564	564	558	560	357
45°	460	456	454	452	452	355
55°	341	340	341	336	335	304
65°	216	222	226	218	210	214
75°	99	109	114	107	97	107
85°	17	22	25	24	22	22
90°	0	0	0	0	0	2
95°	34	135	606	210	129	39
105°	138	210	908	1604	1525	147
115°	258	311	689	1459	1713	253
125°	363	403	657	1091	1304	325
135°	444	481	650	922	1042	343
145°	524	551	655	798	869	327
155°	599	613	670	721	750	277
165°	661	664	678	693	703	186
175°	693	689	686	682	677	66
180°	687	687	687	687	687	



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CATALOG NUMBER: SQ4-PW1-100U-050D-92765-1D-UNV-STD-W-4 (3000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	762.5	762.5	762.5	762.5	762.5
2.5°	766.8	760.5	762.5	760.8	757.1
5°	764.5	756.0	758.5	756.4	755.1
7.5°	756.7	748.8	750.7	748.5	747.7
10°	749.7	741.9	743.7	741.0	739.7
12.5°	741.7	733.3	735.1	732.4	731.6
15°	727.6	718.4	719.5	718.1	716.8
17.5°	711.2	701.8	702.0	699.9	699.6
20°	699.4	689.5	688.6	685.9	687.3
22.5°	686.5	676.1	675.2	671.4	673.3
25°	665.1	653.9	653.0	649.0	651.0
27.5°	640.4	629.3	629.3	623.8	625.9
30°	622.1	611.6	612.7	606.0	608.7
32.5°	602.7	593.3	593.9	587.2	589.8
35°	571.7	563.8	563.6	558.3	560.3
37.5°	540.0	533.0	531.9	528.9	529.4
40°	518.0	512.1	509.9	507.9	507.9
42.5°	494.9	489.5	487.3	485.8	485.3
45°	459.5	455.6	453.5	452.1	451.5
47.5°	424.6	420.9	419.1	418.1	417.5
50°	400.4	397.8	397.0	395.0	394.4
52.5°	376.2	374.6	373.9	371.4	370.7
55°	340.6	339.9	340.6	335.9	335.2
57.5°	303.5	304.6	306.7	300.4	298.8
60°	278.8	281.4	284.2	276.7	274.1
62.5°	253.5	257.7	261.6	253.1	249.4
65°	215.7	222.2	226.4	217.5	210.3
67.5°	179.1	187.2	192.3	182.7	174.5
70°	153.8	163.0	168.6	159.0	149.8
72.5°	131.8	142.1	146.6	137.5	128.3
75°	99.4	108.6	114.2	106.6	96.7
77.5°	70.5	79.2	83.8	77.2	69.1
80°	51.7	60.9	64.5	59.0	52.4
82.5°	36.7	44.3	46.8	43.4	39.0
85°	16.8	22.1	24.9	23.5	22.2
87.5°	4.3	8.0	10.2	10.2	10.7
90°	0.0	0.0	0.0	0.0	0.0
92.5°	10.5	55.4	128.6	37.4	28.2
95°	34.0	134.9	606.4	209.9	129.4
97.5°	62.5	158.1	933.9	668.3	457.9
100°	82.3	171.8	1005.0	1018.0	784.1
102.5°	104.3	186.6	989.3	1303.0	1098.8
105°	138.5	210.1	908.3	1604.4	1525.1
107.5°	173.3	237.4	813.7	1689.3	1759.9
110°	197.3	257.4	759.3	1656.8	1815.3

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	220.3	277.3	722.7	1579.9	1805.9
115°	257.5	311.1	688.7	1459.0	1713.3
117.5°	290.1	340.5	668.6	1326.9	1596.2
120°	316.3	358.4	666.5	1251.3	1509.5
122.5°	337.2	379.3	661.3	1185.0	1424.8
125°	363.3	402.9	657.4	1090.9	1304.3
127.5°	391.8	428.9	655.3	1034.6	1210.4
130°	406.4	443.5	652.1	995.4	1148.8
132.5°	422.1	458.2	652.1	964.8	1105.9
135°	444.3	481.4	649.5	921.5	1041.6
137.5°	465.3	501.3	649.3	884.8	988.5
140°	480.9	518.0	648.2	854.4	954.0
142.5°	498.7	529.6	651.4	830.1	919.5
145°	524.1	550.9	654.8	797.5	869.1
147.5°	545.8	571.8	660.5	764.6	826.5
150°	564.6	582.5	662.6	753.8	797.2
152.5°	579.2	598.1	664.7	739.0	779.4
155°	598.6	612.6	670.4	720.8	750.2
157.5°	622.6	631.0	671.7	712.5	733.4
160°	635.1	641.5	677.0	706.1	724.0
162.5°	642.5	649.9	678.0	700.8	714.6
165°	661.3	663.8	678.3	692.9	703.1
167.5°	674.1	671.8	684.3	690.9	695.0
170°	678.3	677.0	682.2	683.6	688.7
172.5°	687.7	683.3	685.3	681.5	685.6
175°	692.7	688.8	686.1	682.1	677.0
177.5°	694.7	688.6	685.3	681.2	682.2
180°	687.4	687.4	687.4	687.4	687.4

(END OF REPORT)