

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: P523834

Luminaire Tested: **SQ4-PP3-100U-050D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 5/24/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P523834  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2103-172-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/24/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PP3-100U-050D-92765-1D-UNV-STD-W-4 (6500K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6834.9 lumens  
Efficiency: N/A  
Efficacy: 129.7 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

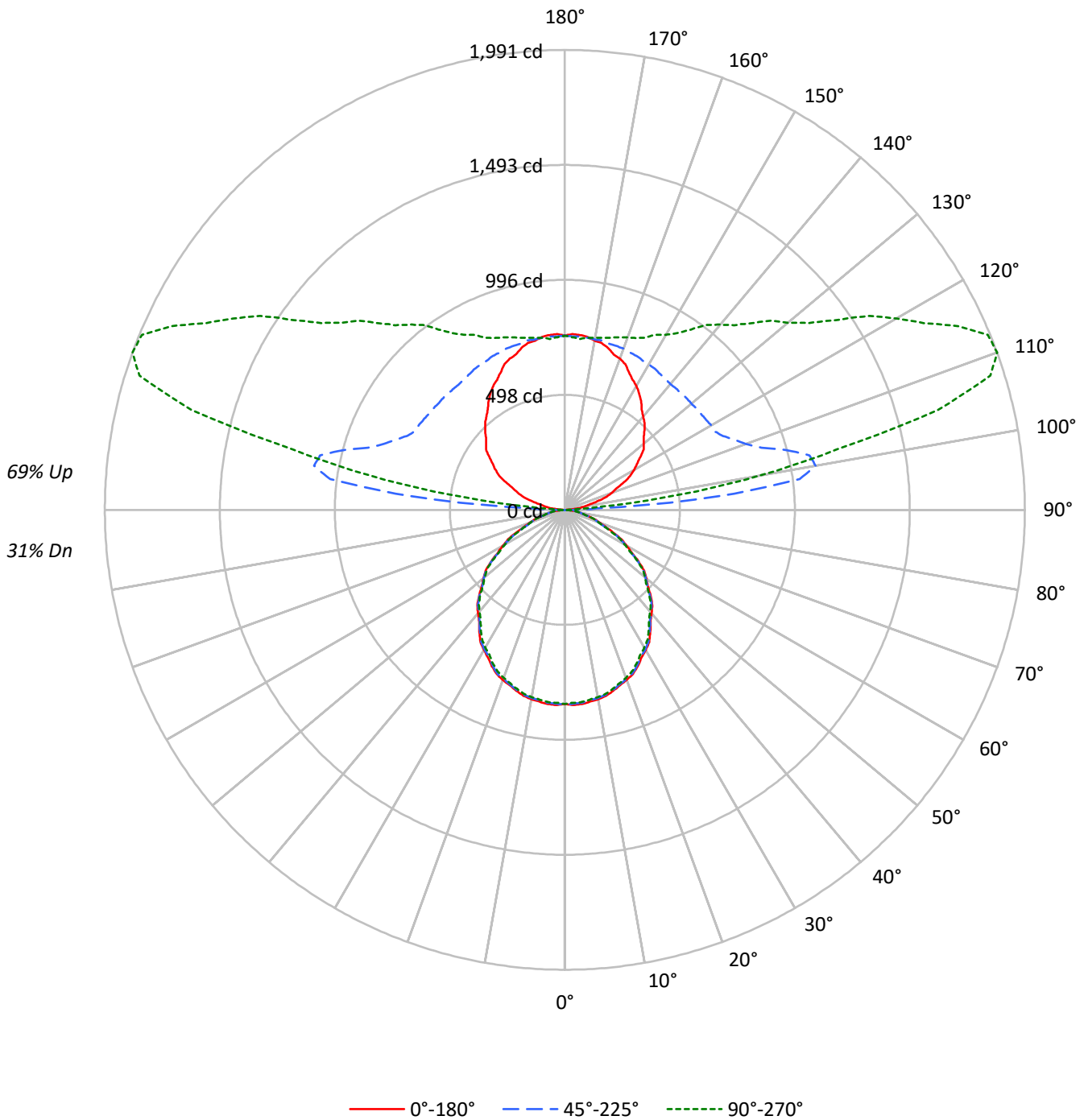
Input Watts (W): 52.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	90	86	83	84	81	78	75	64	62	60	49	47	46	35	34	33	27
2	85	78	72	68	77	71	66	62	56	53	50	43	41	39	31	29	28	23
3	78	69	62	56	70	62	56	51	50	45	42	38	35	33	27	26	24	19
4	71	61	53	48	64	55	49	44	44	39	36	34	31	28	24	22	21	17
5	65	54	46	41	59	49	42	37	39	34	31	30	27	24	22	20	18	14
6	60	48	41	35	54	44	37	32	35	30	27	27	24	21	20	18	16	13
7	55	44	36	31	50	40	33	28	32	27	23	25	21	19	18	16	14	11
8	51	39	32	27	46	36	29	25	29	24	21	23	19	17	17	14	13	10
9	48	36	29	24	43	33	26	22	27	22	18	21	17	15	15	13	11	9
10	45	33	26	21	40	30	24	20	24	20	16	19	16	13	14	12	10	8

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	7756	7756	7756
5°	7812	7765	7737
10°	7799	7744	7709
15°	7747	7705	7663
20°	7696	7652	7594
25°	7604	7552	7477
30°	7464	7424	7331
35°	7268	7219	7127
40°	7036	6992	6912
45°	6844	6795	6729
50°	6598	6555	6492
55°	6257	6174	6127
60°	5696	5532	5506
65°	5017	4809	4792
70°	4332	4154	4154
75°	3729	3675	3625
80°	3289	3326	3246
85°	2572	2805	2805



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.5	1.2
10°-20°	227.0	3.3
20°-30°	339.9	5.0
30°-40°	398.7	5.8
40°-50°	400.0	5.9
50°-60°	341.2	5.0
60°-70°	222.5	3.3
70°-80°	111.6	1.6
80°-90°	30.9	0.5
90°-100°	343.6	5.0
100°-110°	977.6	14.3
110°-120°	936.6	13.7
120°-130°	741.3	10.8
130°-140°	595.0	8.7
140°-150°	465.8	6.8
150°-160°	340.8	5.0
160°-170°	211.1	3.1
170°-180°	71.6	1.0
0°-30°	646.4	9.5
0°-40°	1045.1	15.3
0°-60°	1786.3	26.1
0°-90°	2151.4	31.5
90°-120°	2257.8	33.0
90°-150°	4059.9	59.4
90°-180°	4684.0	68.5
0°-180°	6834.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	841	841	841	841	841	
5°	844	836	838	835	835	80
15°	811	803	807	804	802	229
25°	747	738	742	735	734	343
35°	645	639	641	634	633	403
45°	524	521	521	516	516	404
55°	389	388	384	382	381	346
65°	230	226	220	219	220	229
75°	105	105	103	102	102	113
85°	24	26	26	26	26	29
90°	0	0	0	0	0	2
95°	37	148	665	230	142	43
105°	152	230	996	1760	1673	161
115°	282	341	755	1600	1879	278
125°	398	442	721	1196	1431	357
135°	487	528	712	1011	1142	376
145°	575	604	718	875	953	359
155°	656	672	735	791	823	303
165°	725	728	744	760	771	204
175°	760	756	753	748	742	72
180°	754	754	754	754	754	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	840.6	840.6	840.6	840.6	840.6
2.5°	845.9	838.9	840.6	839.3	835.8
5°	843.5	835.6	838.4	835.4	835.4
7.5°	837.8	829.1	831.9	828.9	828.8
10°	832.5	823.8	826.6	823.6	822.9
12.5°	824.8	816.2	819.5	816.0	815.8
15°	811.1	803.2	806.7	803.7	802.3
17.5°	795.6	787.0	791.2	787.1	786.5
20°	783.8	775.2	779.4	773.5	773.5
22.5°	769.7	761.0	765.9	758.2	758.2
25°	747.0	738.4	741.8	735.2	734.5
27.5°	720.0	711.5	715.2	707.7	707.5
30°	700.6	692.7	696.9	688.8	688.1
32.5°	679.4	672.0	675.1	667.0	666.3
35°	645.3	638.9	640.9	633.5	632.8
37.5°	609.5	602.9	605.3	598.9	598.6
40°	584.2	579.9	580.5	575.3	573.9
42.5°	560.6	555.7	556.3	551.2	550.9
45°	524.5	520.9	520.8	515.7	515.7
47.5°	486.2	483.5	482.7	478.4	478.3
50°	459.7	457.5	456.7	453.0	452.3
52.5°	432.0	431.0	428.5	425.4	425.2
55°	389.0	387.5	383.8	381.6	380.9
57.5°	342.3	339.4	335.2	332.0	332.5
60°	308.7	305.8	299.8	298.4	298.4
62.5°	276.3	272.8	266.8	264.8	265.9
65°	229.8	225.5	220.3	218.8	219.5
67.5°	187.7	183.8	178.1	178.1	177.5
70°	160.6	158.4	154.0	154.0	154.0
72.5°	136.4	135.4	132.2	132.1	131.6
75°	104.6	104.6	103.1	102.4	101.7
77.5°	78.4	78.7	77.9	77.2	75.9
80°	61.9	63.3	62.6	61.9	61.1
82.5°	46.6	48.0	47.9	46.6	46.4
85°	24.3	26.5	26.5	26.5	26.5
87.5°	6.5	8.8	9.4	9.4	10.0
90°	0.0	0.0	0.0	0.0	0.0
92.5°	11.5	60.8	141.1	41.1	31.0
95°	37.3	148.0	665.1	230.2	141.9
97.5°	68.5	173.4	1024.3	733.0	502.3
100°	90.3	188.4	1102.3	1116.6	860.1
102.5°	114.4	204.7	1085.1	1429.2	1205.2
105°	151.9	230.4	996.2	1759.7	1672.8
107.5°	190.1	260.4	892.5	1852.9	1930.3
110°	216.4	282.3	832.8	1817.3	1991.1

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	241.7	304.2	792.7	1732.9	1980.7
115°	282.4	341.3	755.4	1600.3	1879.2
117.5°	318.2	373.4	733.3	1455.4	1750.8
120°	346.9	393.1	731.1	1372.5	1655.6
122.5°	369.8	416.1	725.3	1299.8	1562.7
125°	398.5	441.9	721.0	1196.5	1430.6
127.5°	429.7	470.4	718.7	1134.8	1327.7
130°	445.8	486.4	715.3	1091.8	1260.0
132.5°	463.0	502.5	715.3	1058.2	1213.0
135°	487.4	528.0	712.4	1010.7	1142.5
137.5°	510.3	549.8	712.1	970.4	1084.3
140°	527.5	568.2	711.0	937.1	1046.4
142.5°	547.0	580.9	714.4	910.5	1008.6
145°	574.8	604.2	718.2	874.7	953.2
147.5°	598.6	627.2	724.5	838.7	906.5
150°	619.2	638.9	726.8	826.7	874.4
152.5°	635.3	656.0	729.0	810.6	854.9
155°	656.5	671.9	735.4	790.6	822.8
157.5°	682.9	692.1	736.8	781.5	804.4
160°	696.7	703.7	742.5	774.5	794.1
162.5°	704.7	712.8	743.7	768.7	783.8
165°	725.3	728.1	744.0	760.0	771.2
167.5°	739.4	736.8	750.6	757.8	762.3
170°	744.0	742.6	748.3	749.8	755.4
172.5°	754.3	749.5	751.7	747.5	752.0
175°	759.7	755.5	752.6	748.1	742.5
177.5°	762.0	755.3	751.7	747.1	748.3
180°	754.0	754.0	754.0	754.0	754.0

(END OF REPORT)