

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: P523828

Luminaire Tested: **SQ4-PP3-100U-050D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523828
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 (3000K)
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 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6231.5 lumens
Efficiency: N/A
Efficacy: 117.4 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

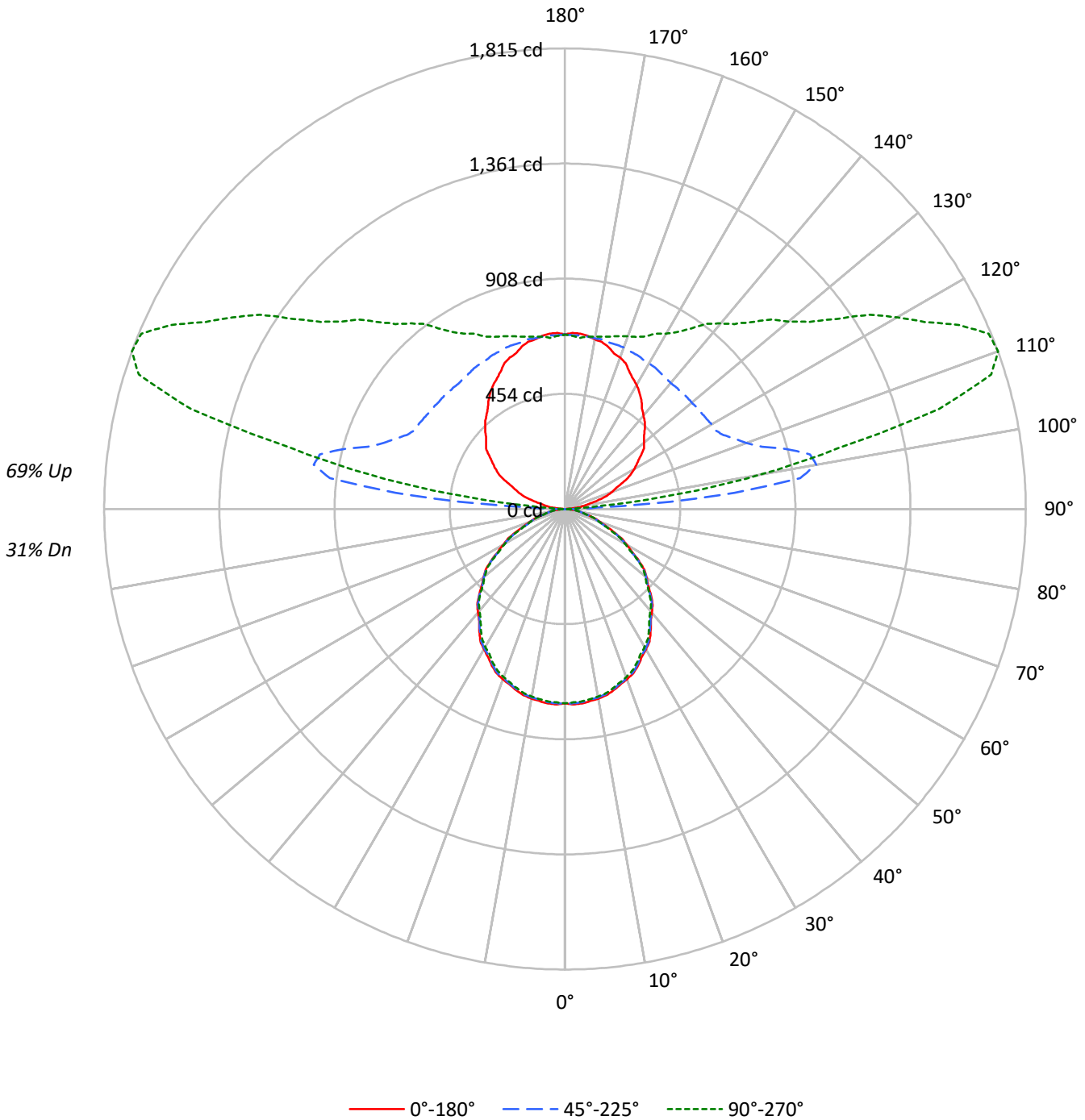
Input Watts (W): 53.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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°	7071	7071	7071
5°	7122	7079	7054
10°	7111	7060	7028
15°	7063	7025	6986
20°	7016	6977	6924
25°	6934	6886	6817
30°	6804	6769	6683
35°	6627	6581	6498
40°	6415	6375	6301
45°	6239	6196	6135
50°	6016	5977	5919
55°	5704	5628	5585
60°	5193	5045	5019
65°	4576	4384	4371
70°	3949	3787	3787
75°	3401	3351	3305
80°	2997	3034	2959
85°	2350	2562	2562



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.5	1.2
10°-20°	206.9	3.3
20°-30°	309.9	5.0
30°-40°	363.5	5.8
40°-50°	364.7	5.9
50°-60°	311.1	5.0
60°-70°	202.9	3.3
70°-80°	101.8	1.6
80°-90°	28.2	0.5
90°-100°	313.2	5.0
100°-110°	891.3	14.3
110°-120°	853.9	13.7
120°-130°	675.9	10.8
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	1.0
0°-30°	589.3	9.5
0°-40°	952.8	15.3
0°-60°	1628.6	26.1
0°-90°	1961.4	31.5
90°-120°	2058.5	33.0
90°-150°	3701.5	59.4
90°-180°	4270.0	68.5
0°-180°	6231.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	766	766	766	766	766	
5°	769	762	764	762	762	73
15°	740	732	736	733	731	209
25°	681	673	676	670	670	313
35°	588	582	584	578	577	368
45°	478	475	475	470	470	368
55°	355	353	350	348	347	315
65°	210	206	201	200	200	209
75°	95	95	94	93	93	103
85°	22	24	24	24	24	26
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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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	766.4	766.4	766.4	766.4	766.4
2.5°	771.2	764.9	766.4	765.2	762.1
5°	769.0	761.8	764.3	761.6	761.6
7.5°	763.8	755.9	758.4	755.7	755.6
10°	759.0	751.1	753.6	750.9	750.2
12.5°	752.0	744.1	747.1	743.9	743.8
15°	739.5	732.3	735.5	732.7	731.4
17.5°	725.4	717.5	721.4	717.6	717.1
20°	714.6	706.8	710.6	705.2	705.2
22.5°	701.7	693.9	698.2	691.3	691.3
25°	681.1	673.2	676.4	670.3	669.6
27.5°	656.5	648.7	652.0	645.2	645.1
30°	638.7	631.5	635.4	628.0	627.3
32.5°	619.4	612.7	615.5	608.1	607.4
35°	588.4	582.5	584.3	577.6	576.9
37.5°	555.7	549.7	551.8	546.0	545.8
40°	532.6	528.7	529.3	524.5	523.2
42.5°	511.1	506.7	507.2	502.5	502.3
45°	478.2	474.9	474.9	470.2	470.2
47.5°	443.3	440.8	440.1	436.2	436.0
50°	419.1	417.1	416.4	413.0	412.4
52.5°	393.9	392.9	390.6	387.8	387.7
55°	354.6	353.3	349.9	347.9	347.2
57.5°	312.0	309.4	305.6	302.7	303.2
60°	281.4	278.8	273.4	272.0	272.0
62.5°	251.9	248.7	243.3	241.4	242.5
65°	209.6	205.6	200.8	199.5	200.2
67.5°	171.1	167.6	162.4	162.4	161.9
70°	146.4	144.4	140.4	140.4	140.4
72.5°	124.4	123.5	120.5	120.5	120.0
75°	95.4	95.4	94.0	93.3	92.7
77.5°	71.5	71.7	71.1	70.4	69.2
80°	56.4	57.7	57.1	56.4	55.7
82.5°	42.4	43.8	43.7	42.4	42.3
85°	22.2	24.1	24.2	24.2	24.2
87.5°	5.9	8.0	8.6	8.6	9.1
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)