

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: P561627

Luminaire Tested: **SQ4-PC3-100U-050D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561627
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-100U-050D-92765-1D-UNV-STD-W-4 (5700K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6791.1 lumens
Efficiency: N/A
Efficacy: 128.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

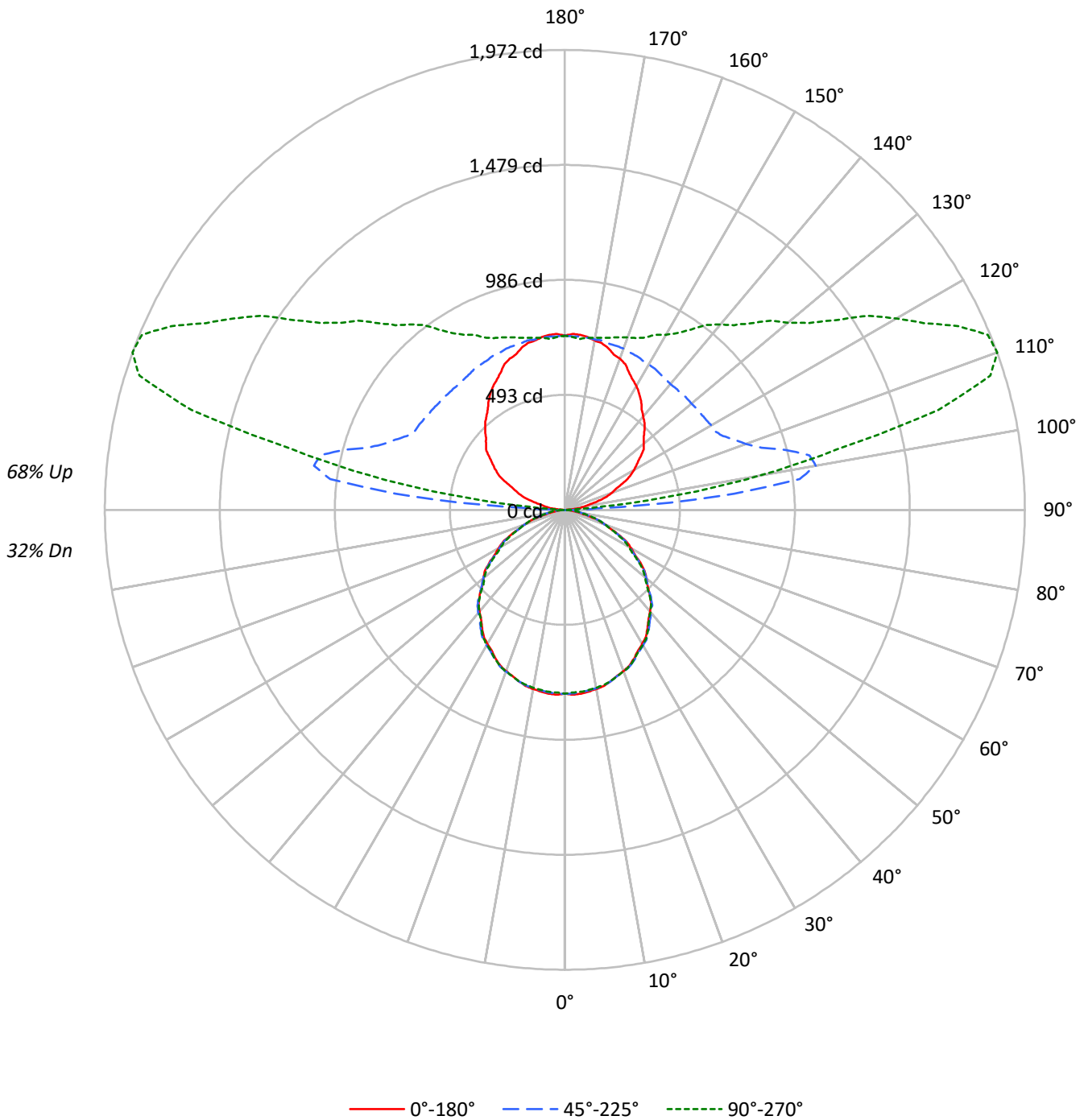
Input Watts (W): 52.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	56	56	56	39	39	39	32
1	94	90	86	82	84	81	78	75	64	62	60	49	47	46	35	34	33	27
2	85	78	72	67	76	70	65	61	56	53	50	43	41	39	31	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	20	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	24	29	24	20	22	19	16	16	14	12	10
9	48	36	28	23	43	32	26	22	26	21	18	21	17	15	15	13	11	9
10	44	33	26	21	40	30	23	19	24	19	16	19	15	13	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7273	7273	7273
5°	7329	7280	7254
10°	7310	7277	7256
15°	7272	7272	7265
20°	7224	7246	7246
25°	7156	7207	7186
30°	7069	7154	7123
35°	6964	7070	7021
40°	6848	6946	6875
45°	6724	6772	6667
50°	6548	6548	6443
55°	6341	6259	6164
60°	6034	5912	5818
65°	5578	5466	5418
70°	4883	4923	4904
75°	3928	4345	4370
80°	2795	3682	3725
85°	1704	3091	3091



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.6	1.1
10°-20°	214.1	3.2
20°-30°	324.2	4.8
30°-40°	388.7	5.7
40°-50°	396.4	5.8
50°-60°	346.0	5.1
60°-70°	247.7	3.6
70°-80°	127.6	1.9
80°-90°	32.3	0.5
90°-100°	340.3	5.0
100°-110°	968.4	14.3
110°-120°	927.8	13.7
120°-130°	734.4	10.8
130°-140°	589.4	8.7
140°-150°	461.5	6.8
150°-160°	337.6	5.0
160°-170°	209.1	3.1
170°-180°	71.0	1.0
0°-30°	612.9	9.0
0°-40°	1001.6	14.7
0°-60°	1744.0	25.7
0°-90°	2151.5	31.7
90°-120°	2236.6	32.9
90°-150°	4021.8	59.2
90°-180°	4640.0	68.3
0°-180°	6791.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	788	788	788	788	788	
5°	791	783	786	784	783	75
15°	761	755	761	761	761	215
25°	703	698	708	706	706	323
35°	618	617	628	623	623	387
45°	515	514	519	512	511	397
55°	394	389	389	383	383	351
65°	256	250	250	248	248	253
75°	110	115	122	123	123	119
85°	16	25	29	30	29	22
90°	0	0	0	0	0	2
95°	37	147	659	228	141	42
105°	150	228	987	1743	1657	159
115°	280	338	748	1585	1862	275
125°	395	438	714	1185	1417	353
135°	483	523	706	1001	1132	373
145°	569	599	711	866	944	356
155°	650	666	728	783	815	301
165°	718	721	737	753	764	202
175°	753	748	746	741	736	71
180°	747	747	747	747	747	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	788.3	788.3	788.3	788.3	788.3
2.5°	793.0	786.2	788.3	786.5	783.7
5°	791.3	783.4	786.1	783.9	783.2
7.5°	785.6	777.7	781.3	779.9	779.1
10°	780.3	772.5	776.7	775.2	774.5
12.5°	773.3	766.0	770.8	769.4	769.2
15°	761.3	754.9	761.3	761.3	760.6
17.5°	746.3	740.4	747.3	747.7	747.3
20°	735.8	729.4	738.0	737.3	738.0
22.5°	722.9	717.7	726.9	725.0	725.7
25°	702.9	697.9	708.0	705.9	705.9
27.5°	679.3	675.7	686.7	684.4	684.4
30°	663.5	659.9	671.5	668.6	668.6
32.5°	646.0	643.6	654.6	651.1	651.1
35°	618.3	616.8	627.7	623.4	623.4
37.5°	589.6	588.4	598.3	593.0	591.3
40°	568.6	567.9	576.7	570.8	570.8
42.5°	547.6	546.9	554.5	547.5	547.5
45°	515.3	513.9	519.0	512.4	511.0
47.5°	480.2	478.7	481.9	474.7	474.0
50°	456.2	454.8	456.2	449.6	448.9
52.5°	431.7	429.1	429.4	422.8	422.6
55°	394.2	389.2	389.1	383.2	383.2
57.5°	354.5	347.9	348.5	343.5	342.8
60°	327.0	319.9	320.4	316.0	315.3
62.5°	300.2	291.9	293.6	288.6	288.5
65°	255.5	249.8	250.4	248.2	248.2
67.5°	212.6	207.3	211.1	209.3	209.2
70°	181.0	177.5	182.5	182.5	181.8
72.5°	151.8	151.7	158.0	158.0	158.4
75°	110.2	115.2	121.9	122.6	122.6
77.5°	73.6	82.4	89.8	90.1	89.9
80°	52.6	62.5	69.3	70.8	70.1
82.5°	35.6	46.2	51.8	53.3	52.6
85°	16.1	24.6	29.2	29.9	29.2
87.5°	4.7	9.8	11.7	11.7	10.5
90°	0.0	0.0	0.0	0.0	0.0
92.5°	11.4	60.2	139.7	40.7	30.7
95°	36.9	146.6	658.9	228.0	140.6
97.5°	67.9	171.7	1014.7	726.1	497.6
100°	89.5	186.6	1092.0	1106.1	852.0
102.5°	113.3	202.7	1074.9	1415.8	1193.9
105°	150.5	228.3	986.9	1743.2	1657.1
107.5°	188.3	258.0	884.1	1835.5	1912.1
110°	214.4	279.7	825.0	1800.2	1972.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	239.4	301.3	785.2	1716.7	1962.1
115°	279.7	338.0	748.3	1585.3	1861.6
117.5°	315.2	369.9	726.5	1441.7	1734.4
120°	343.6	389.5	724.2	1359.6	1640.1
122.5°	366.4	412.2	718.5	1287.6	1548.1
125°	394.8	437.8	714.2	1185.3	1417.1
127.5°	425.7	466.0	712.0	1124.1	1315.2
130°	441.6	481.9	708.6	1081.5	1248.2
132.5°	458.7	497.8	708.6	1048.3	1201.6
135°	482.8	523.1	705.7	1001.2	1131.7
137.5°	505.5	544.7	705.4	961.3	1074.1
140°	522.6	562.8	704.3	928.3	1036.6
142.5°	541.9	575.5	707.7	901.9	999.1
145°	569.4	598.6	711.4	866.5	944.3
147.5°	593.0	621.3	717.7	830.8	898.0
150°	613.4	632.9	719.9	819.0	866.2
152.5°	629.3	649.9	722.2	803.0	846.9
155°	650.3	665.6	728.4	783.1	815.1
157.5°	676.5	685.6	729.9	774.1	796.9
160°	690.1	697.1	735.5	767.2	786.7
162.5°	698.1	706.1	736.7	761.4	776.4
165°	718.5	721.3	737.0	752.8	763.9
167.5°	732.4	729.9	743.5	750.7	755.1
170°	737.0	735.6	741.2	742.8	748.3
172.5°	747.2	742.5	744.6	740.5	744.9
175°	752.6	748.4	745.5	741.1	735.5
177.5°	754.9	748.2	744.6	740.1	741.2
180°	746.9	746.9	746.9	746.9	746.9

(END OF REPORT)