

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: P562903

Luminaire Tested: **SQ4-PC3-100U-050D-930-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562903
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-930-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

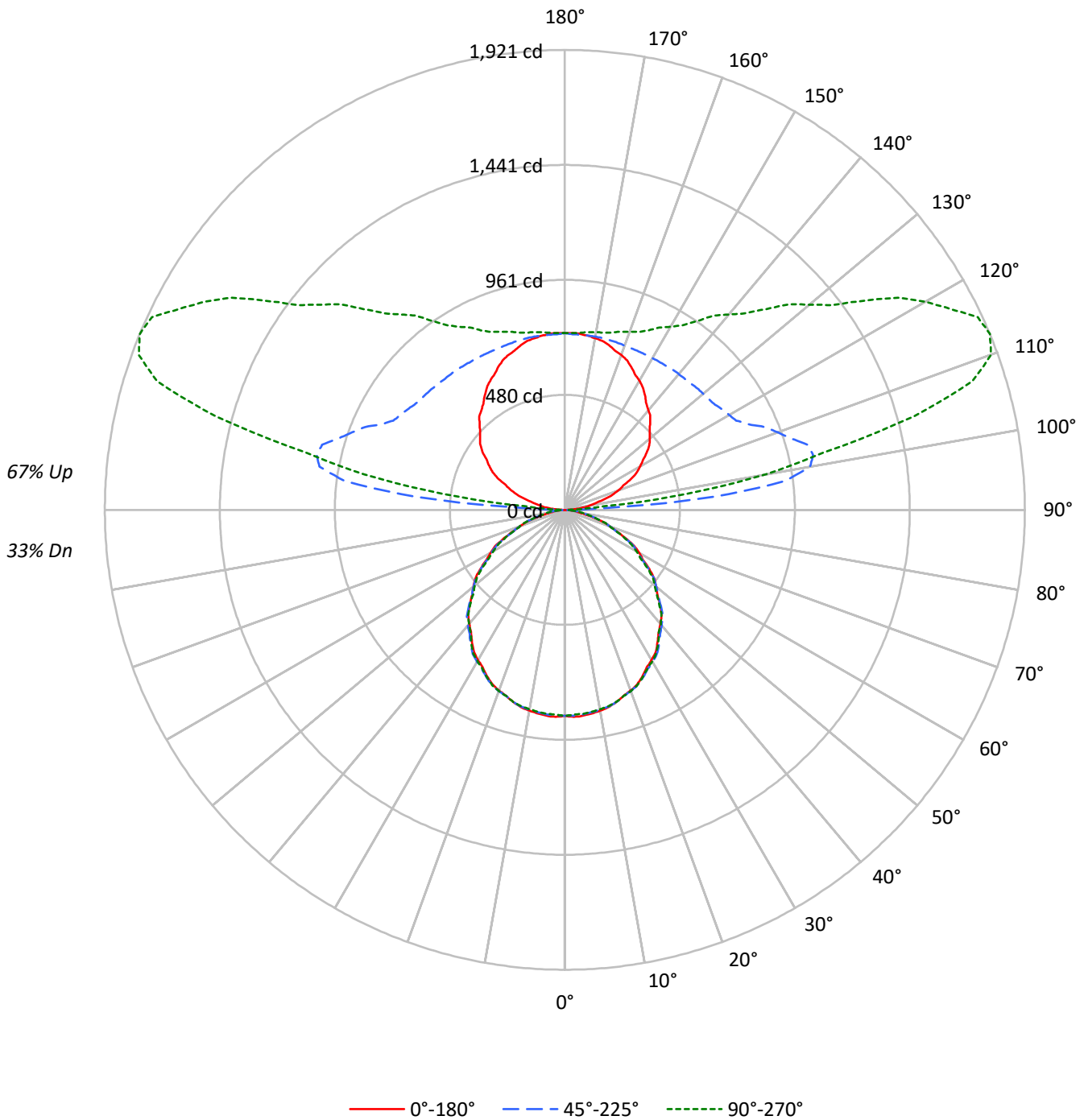
Lumens per Lamp: N/A
Luminaire Lumens: 7144.6 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 64.3
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	93	93	93	93	74	74	74	56	56	56	40	40	40	33
1	94	90	86	83	85	81	78	75	65	63	61	50	48	47	36	35	34	28
2	86	78	72	67	77	71	66	62	57	53	50	44	41	39	31	30	29	23
3	78	69	62	56	70	62	56	51	50	46	42	38	36	33	28	26	24	20
4	71	61	53	47	64	55	48	43	44	39	36	34	31	28	25	23	21	17
5	65	54	46	40	59	49	42	37	39	34	31	31	27	24	22	20	18	15
6	60	48	40	35	54	44	37	32	35	30	27	28	24	21	20	18	16	13
7	55	43	36	30	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	16	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°	5294	5294	5294
5°	5334	5299	5280
10°	5321	5296	5281
15°	5293	5293	5288
20°	5258	5274	5274
25°	5209	5246	5230
30°	5145	5207	5185
35°	5068	5146	5110
40°	4985	5055	5004
45°	4894	4929	4853
50°	4766	4766	4690
55°	4615	4555	4487
60°	4392	4304	4235
65°	4059	3979	3944
70°	3554	3582	3568
75°	2859	3163	3182
80°	2033	2681	2710
85°	1235	2251	2251



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.5	1.1
10°-20°	233.8	3.3
20°-30°	354.0	5.0
30°-40°	424.4	5.9
40°-50°	432.7	6.1
50°-60°	377.7	5.3
60°-70°	270.4	3.8
70°-80°	139.3	1.9
80°-90°	36.8	0.5
90°-100°	345.5	4.8
100°-110°	953.9	13.4
110°-120°	983.8	13.8
120°-130°	790.5	11.1
130°-140°	621.3	8.7
140°-150°	476.5	6.7
150°-160°	342.5	4.8
160°-170°	209.4	2.9
170°-180°	70.6	1.0
0°-30°	669.2	9.4
0°-40°	1093.6	15.3
0°-60°	1904.1	26.7
0°-90°	2350.6	32.9
90°-120°	2283.2	32.0
90°-150°	4171.5	58.4
90°-180°	4794.0	67.1
0°-180°	7144.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	861	861	861	861	861	
5°	864	855	858	856	855	82
15°	831	824	831	831	830	234
25°	768	762	773	771	771	353
35°	675	674	685	681	681	422
45°	563	561	567	559	558	433
55°	430	425	425	418	418	384
65°	279	273	273	271	271	276
75°	120	126	133	134	134	130
85°	18	27	32	33	32	24
90°	2	5	9	11	12	4
95°	51	187	627	258	168	54
105°	170	262	1050	1602	1509	181
115°	305	368	845	1673	1903	299
125°	418	476	766	1297	1522	372
135°	503	557	745	1050	1184	389
145°	583	624	736	894	962	365
155°	658	680	730	802	828	303
165°	712	721	733	762	767	201
175°	738	739	734	745	742	70
180°	738	738	738	738	738	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	860.7	860.7	860.7	860.7	860.7
2.5°	865.8	858.3	860.7	858.7	855.6
5°	863.9	855.3	858.3	855.9	855.1
7.5°	857.7	849.1	853.1	851.4	850.7
10°	851.9	843.4	848.0	846.3	845.6
12.5°	844.3	836.3	841.6	840.0	839.8
15°	831.2	824.2	831.2	831.2	830.4
17.5°	814.8	808.4	815.9	816.4	815.9
20°	803.3	796.3	805.7	804.9	805.7
22.5°	789.3	783.5	793.6	791.5	792.3
25°	767.5	762.0	773.0	770.6	770.6
27.5°	741.6	737.7	749.8	747.2	747.2
30°	724.4	720.5	733.2	730.0	730.0
32.5°	705.3	702.6	714.7	710.9	710.9
35°	675.0	673.5	685.4	680.6	680.6
37.5°	643.8	642.4	653.2	647.4	645.5
40°	620.8	620.0	629.6	623.2	623.2
42.5°	597.9	597.1	605.4	597.7	597.7
45°	562.6	561.1	566.6	559.4	557.9
47.5°	524.2	522.7	526.1	518.3	517.5
50°	498.1	496.5	498.1	490.9	490.1
52.5°	471.3	468.5	468.8	461.6	461.4
55°	430.4	424.9	424.8	418.4	418.4
57.5°	387.0	379.8	380.5	375.0	374.2
60°	357.0	349.2	349.9	345.1	344.3
62.5°	327.7	318.7	320.5	315.1	315.0
65°	278.9	272.7	273.4	271.0	271.0
67.5°	232.1	226.3	230.5	228.6	228.4
70°	197.6	193.7	199.2	199.2	198.4
72.5°	165.8	165.6	172.5	172.5	172.9
75°	120.3	125.8	133.1	133.9	133.9
77.5°	80.3	90.0	98.0	98.3	98.2
80°	57.4	68.3	75.7	77.3	76.5
82.5°	38.9	50.4	56.6	58.2	57.4
85°	17.5	26.9	31.9	32.7	31.9
87.5°	5.6	11.6	14.6	14.9	13.8
90°	2.4	4.7	9.4	10.7	11.8
92.5°	21.2	88.2	157.7	57.6	44.9
95°	50.8	187.0	626.9	257.7	167.6
97.5°	84.1	209.4	928.6	714.9	517.8
100°	108.6	222.9	1040.0	1047.4	851.2
102.5°	132.2	238.2	1061.8	1294.1	1108.0
105°	170.0	262.3	1049.5	1602.2	1508.7
107.5°	210.1	292.3	990.9	1750.8	1784.9
110°	238.5	312.3	945.6	1782.7	1893.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	264.0	335.1	903.1	1757.5	1920.9
115°	304.6	368.1	845.3	1673.3	1903.0
117.5°	340.0	403.2	807.2	1554.8	1816.1
120°	363.6	425.9	792.1	1474.6	1737.7
122.5°	386.3	445.8	779.9	1399.6	1649.0
125°	417.9	475.6	766.2	1296.6	1521.7
127.5°	444.8	502.5	758.1	1209.5	1403.6
130°	462.8	520.5	754.4	1156.2	1332.8
132.5°	479.8	534.7	750.6	1111.4	1271.4
135°	502.9	557.2	744.9	1050.2	1184.1
137.5°	528.9	578.3	742.1	998.7	1113.0
140°	543.0	591.5	740.2	964.4	1064.8
142.5°	559.1	603.9	738.3	933.9	1022.3
145°	583.2	623.6	735.5	894.0	962.1
147.5°	606.3	641.6	732.9	860.4	913.3
150°	623.3	652.2	731.9	840.3	883.0
152.5°	636.5	663.5	731.0	823.2	858.5
155°	657.6	679.5	729.6	802.2	827.5
157.5°	676.9	693.8	729.8	786.9	804.2
160°	688.2	703.2	730.7	778.3	790.9
162.5°	697.7	710.8	731.7	770.6	780.6
165°	711.9	721.1	733.1	761.6	767.3
167.5°	722.7	728.3	734.3	756.0	757.9
170°	728.4	733.0	734.3	753.2	753.2
172.5°	733.1	735.9	734.3	749.4	748.5
175°	737.8	739.0	734.3	744.9	742.5
177.5°	739.7	738.8	734.0	740.6	738.8
180°	737.8	737.8	737.8	737.8	737.8

(END OF REPORT)