

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: P561519

Luminaire Tested: **SQ4-PC3-075U-050D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561519
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-PC3-075U-050D-92765-1D-UNV-STD-W-4 (3500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

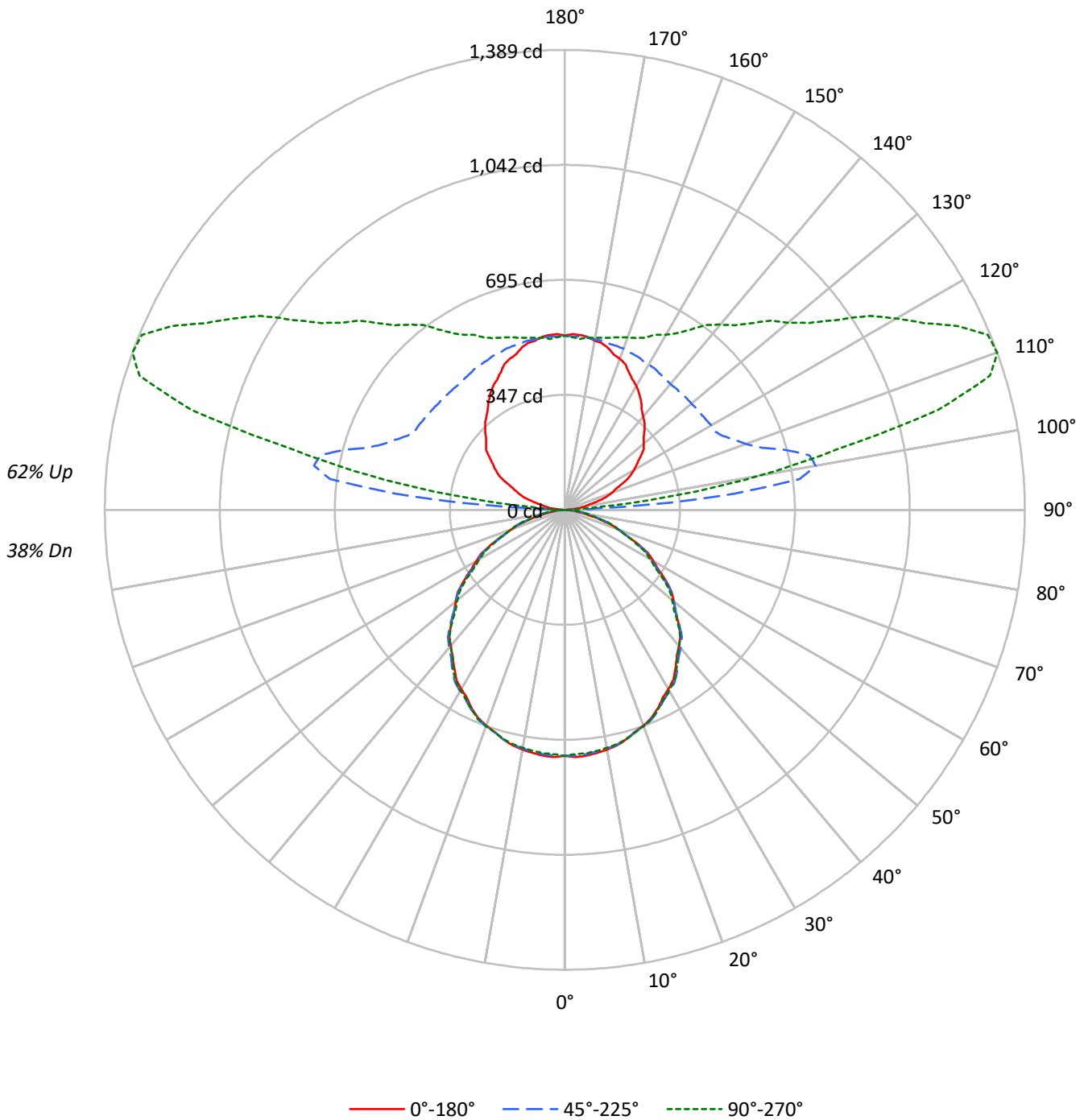
Lumens per Lamp: N/A
Luminaire Lumens: 5295.1 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 44.4
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	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38
1	95	91	87	84	86	83	80	77	67	65	63	53	52	50	40	39	38	32
2	87	79	73	68	78	72	67	63	59	55	52	47	44	42	35	34	32	27
3	79	70	63	57	71	64	57	52	52	48	44	41	38	36	31	29	27	23
4	72	62	54	48	65	56	50	44	46	41	37	37	33	30	28	26	24	20
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	23	21	17
6	61	49	41	35	55	45	38	33	37	32	28	30	26	23	23	20	18	15
7	56	44	36	31	51	40	34	29	33	28	24	27	23	20	21	18	16	13
8	52	40	32	27	47	37	30	25	30	25	22	25	21	18	19	16	14	12
9	48	36	29	24	44	33	27	22	28	23	19	23	19	16	17	15	13	11
10	45	33	26	22	41	31	24	20	26	21	17	21	17	14	16	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6855	6855	6855
5°	6906	6862	6836
10°	6890	6858	6838
15°	6853	6853	6847
20°	6808	6829	6829
25°	6744	6793	6772
30°	6662	6743	6713
35°	6563	6663	6617
40°	6454	6546	6480
45°	6337	6382	6283
50°	6172	6172	6073
55°	5976	5899	5810
60°	5687	5573	5484
65°	5257	5152	5106
70°	4602	4640	4621
75°	3704	4096	4121
80°	2630	3475	3507
85°	1598	2911	2911



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.3	1.3
10°-20°	201.8	3.8
20°-30°	305.6	5.8
30°-40°	366.3	6.9
40°-50°	373.5	7.1
50°-60°	326.1	6.2
60°-70°	233.4	4.4
70°-80°	120.2	2.3
80°-90°	30.4	0.6
90°-100°	239.7	4.5
100°-110°	682.0	12.9
110°-120°	653.4	12.3
120°-130°	517.2	9.8
130°-140°	415.1	7.8
140°-150°	325.0	6.1
150°-160°	237.8	4.5
160°-170°	147.3	2.8
170°-180°	50.0	0.9
0°-30°	577.7	10.9
0°-40°	944.0	17.8
0°-60°	1643.6	31.0
0°-90°	2027.7	38.3
90°-120°	1575.1	29.7
90°-150°	2832.3	53.5
90°-180°	3267.0	61.7
0°-180°	5295.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	743	743	743	743	743	
5°	746	738	741	739	738	71
15°	718	712	718	718	717	202
25°	662	658	667	665	665	305
35°	583	581	592	588	588	364
45°	486	484	489	483	482	374
55°	372	367	367	361	361	331
65°	241	235	236	234	234	238
75°	104	109	115	116	116	112
85°	15	23	28	28	28	21
90°	0	0	0	0	0	2
95°	26	103	464	161	99	30
105°	106	161	695	1228	1167	112
115°	197	238	527	1116	1311	194
125°	278	308	503	835	998	249
135°	340	368	497	705	797	262
145°	401	422	501	610	665	250
155°	458	469	513	552	574	212
165°	506	508	519	530	538	142
175°	530	527	525	522	518	50
180°	526	526	526	526	526	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	743.0	743.0	743.0	743.0	743.0
2.5°	747.4	740.9	743.0	741.3	738.6
5°	745.7	738.3	740.9	738.8	738.1
7.5°	740.3	732.9	736.4	735.0	734.3
10°	735.4	728.0	732.0	730.6	729.9
12.5°	728.8	721.9	726.5	725.1	724.9
15°	717.5	711.5	717.5	717.5	716.8
17.5°	703.3	697.8	704.3	704.7	704.3
20°	693.4	687.4	695.5	694.8	695.5
22.5°	681.3	676.3	685.0	683.3	683.9
25°	662.5	657.8	667.3	665.2	665.2
27.5°	640.2	636.8	647.2	645.0	645.0
30°	625.3	622.0	632.9	630.1	630.1
32.5°	608.8	606.5	616.9	613.6	613.6
35°	582.7	581.3	591.6	587.5	587.5
37.5°	555.7	554.5	563.8	558.8	557.2
40°	535.9	535.2	543.5	538.0	538.0
42.5°	516.1	515.4	522.6	515.9	515.9
45°	485.7	484.3	489.1	482.9	481.5
47.5°	452.5	451.2	454.2	447.4	446.7
50°	430.0	428.6	430.0	423.7	423.1
52.5°	406.8	404.4	404.6	398.4	398.3
55°	371.5	366.8	366.7	361.2	361.2
57.5°	334.1	327.9	328.4	323.7	323.1
60°	308.2	301.5	302.0	297.9	297.2
62.5°	282.9	275.1	276.7	272.0	271.9
65°	240.8	235.4	236.0	233.9	233.9
67.5°	200.3	195.3	198.9	197.3	197.2
70°	170.6	167.2	172.0	172.0	171.3
72.5°	143.1	143.0	148.9	148.9	149.3
75°	103.9	108.6	114.9	115.6	115.6
77.5°	69.3	77.7	84.6	84.9	84.8
80°	49.5	58.9	65.4	66.7	66.0
82.5°	33.6	43.5	48.8	50.2	49.5
85°	15.1	23.2	27.5	28.2	27.5
87.5°	4.4	9.2	11.0	11.0	9.9
90°	0.0	0.0	0.0	0.0	0.0
92.5°	8.0	42.4	98.4	28.6	21.6
95°	26.0	103.2	464.0	160.6	99.0
97.5°	47.8	120.9	714.6	511.3	350.4
100°	63.0	131.4	769.0	778.9	600.0
102.5°	79.8	142.8	757.0	997.0	840.8
105°	106.0	160.8	695.0	1227.6	1167.0
107.5°	132.6	181.7	622.6	1292.6	1346.6
110°	151.0	197.0	581.0	1267.8	1389.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	168.6	212.2	553.0	1208.9	1381.8
115°	197.0	238.1	527.0	1116.4	1311.0
117.5°	222.0	260.5	511.6	1015.3	1221.4
120°	242.0	274.3	510.0	957.5	1155.0
122.5°	258.0	290.3	506.0	906.8	1090.2
125°	278.0	308.3	503.0	834.7	998.0
127.5°	299.8	328.2	501.4	791.7	926.2
130°	311.0	339.4	499.0	761.7	879.0
132.5°	323.0	350.6	499.0	738.3	846.2
135°	340.0	368.4	497.0	705.1	797.0
137.5°	356.0	383.6	496.8	677.0	756.4
140°	368.0	396.4	496.0	653.7	730.0
142.5°	381.6	405.3	498.4	635.2	703.6
145°	401.0	421.5	501.0	610.2	665.0
147.5°	417.6	437.5	505.4	585.1	632.4
150°	432.0	445.7	507.0	576.8	610.0
152.5°	443.2	457.7	508.6	565.5	596.4
155°	458.0	468.8	513.0	551.5	574.0
157.5°	476.4	482.9	514.0	545.2	561.2
160°	486.0	490.9	518.0	540.3	554.0
162.5°	491.6	497.3	518.8	536.2	546.8
165°	506.0	508.0	519.0	530.2	538.0
167.5°	515.8	514.0	523.6	528.7	531.8
170°	519.0	518.0	522.0	523.1	527.0
172.5°	526.2	522.9	524.4	521.5	524.6
175°	530.0	527.1	525.0	521.9	518.0
177.5°	531.6	526.9	524.4	521.2	522.0
180°	526.0	526.0	526.0	526.0	526.0

(END OF REPORT)