

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: P561626

Luminaire Tested: **SQ4-PC3-100U-050D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P561626  
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 (5000K)  
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 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

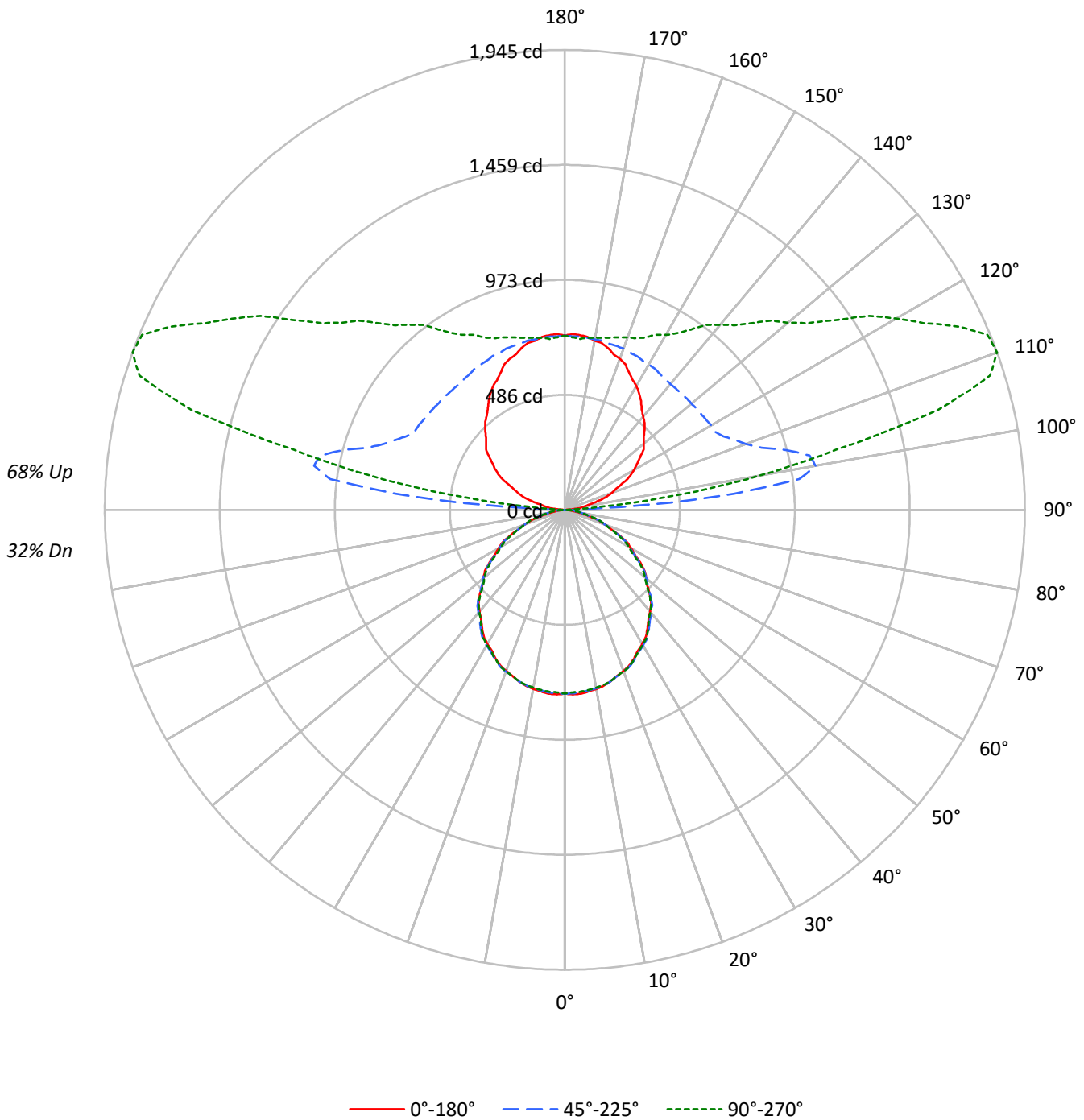
Lumens per Lamp: N/A  
Luminaire Lumens: 6695.7 lumens  
Efficiency: N/A  
Efficacy: 126.3 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 53  
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°	7172	7172	7172
5°	7225	7179	7152
10°	7207	7173	7154
15°	7169	7169	7163
20°	7122	7144	7144
25°	7056	7107	7084
30°	6970	7054	7023
35°	6866	6971	6922
40°	6752	6848	6778
45°	6630	6677	6573
50°	6456	6456	6353
55°	6251	6170	6077
60°	5949	5829	5737
65°	5499	5390	5342
70°	4815	4853	4834
75°	3875	4285	4310
80°	2752	3634	3671
85°	1673	3049	3049



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.6	1.1
10°-20°	211.1	3.2
20°-30°	319.7	4.8
30°-40°	383.2	5.7
40°-50°	390.8	5.8
50°-60°	341.1	5.1
60°-70°	244.2	3.6
70°-80°	125.8	1.9
80°-90°	31.8	0.5
90°-100°	335.6	5.0
100°-110°	954.8	14.3
110°-120°	914.8	13.7
120°-130°	724.0	10.8
130°-140°	581.1	8.7
140°-150°	455.0	6.8
150°-160°	332.9	5.0
160°-170°	206.2	3.1
170°-180°	70.0	1.0
0°-30°	604.3	9.0
0°-40°	987.6	14.7
0°-60°	1719.5	25.7
0°-90°	2121.3	31.7
90°-120°	2205.2	32.9
90°-150°	3965.3	59.2
90°-180°	4574.0	68.3
0°-180°	6695.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	777	777	777	777	777	
5°	780	772	775	773	772	74
15°	751	744	751	751	750	212
25°	693	688	698	696	696	319
35°	610	608	619	615	615	381
45°	508	507	512	505	504	391
55°	389	384	384	378	378	346
65°	252	246	247	245	245	249
75°	109	114	120	121	121	117
85°	16	24	29	30	29	21
90°	0	0	0	0	0	2
95°	36	144	650	225	139	42
105°	148	225	973	1719	1634	157
115°	276	333	738	1563	1835	272
125°	389	432	704	1169	1397	348
135°	476	516	696	987	1116	367
145°	561	590	701	854	931	351
155°	641	656	718	772	804	296
165°	708	711	727	742	753	199
175°	742	738	735	731	725	70
180°	736	736	736	736	736	

TEST NUMBER: P561626

CATALOG NUMBER: SQ4-PC3-100U-050D-92765-1D-UNV-STD-W-4 (5000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	777.3	777.3	777.3	777.3	777.3
2.5°	781.9	775.1	777.3	775.5	772.7
5°	780.1	772.4	775.1	772.9	772.2
7.5°	774.5	766.8	770.4	768.9	768.2
10°	769.3	761.6	765.7	764.3	763.6
12.5°	762.4	755.3	760.0	758.5	758.4
15°	750.6	744.3	750.6	750.6	749.9
17.5°	735.8	730.0	736.8	737.2	736.8
20°	725.4	719.1	727.6	726.9	727.6
22.5°	712.8	707.6	716.7	714.8	715.5
25°	693.1	688.1	698.1	695.9	695.9
27.5°	669.7	666.2	677.1	674.8	674.8
30°	654.2	650.7	662.1	659.2	659.2
32.5°	636.9	634.5	645.4	642.0	642.0
35°	609.6	608.2	618.9	614.6	614.6
37.5°	581.4	580.1	589.9	584.6	582.9
40°	560.6	559.9	568.6	562.8	562.8
42.5°	539.9	539.2	546.7	539.8	539.8
45°	508.1	506.7	511.7	505.2	503.8
47.5°	473.4	472.0	475.1	468.1	467.4
50°	449.8	448.4	449.8	443.3	442.6
52.5°	425.6	423.1	423.3	416.8	416.7
55°	388.6	383.7	383.6	377.8	377.8
57.5°	349.5	343.0	343.6	338.7	338.0
60°	322.4	315.4	315.9	311.6	310.9
62.5°	295.9	287.8	289.5	284.6	284.4
65°	251.9	246.3	246.9	244.7	244.7
67.5°	209.6	204.4	208.1	206.4	206.3
70°	178.5	175.0	179.9	179.9	179.2
72.5°	149.7	149.6	155.7	155.8	156.2
75°	108.7	113.6	120.2	120.9	120.9
77.5°	72.5	81.3	88.5	88.8	88.7
80°	51.8	61.7	68.4	69.8	69.1
82.5°	35.1	45.5	51.1	52.5	51.8
85°	15.8	24.3	28.8	29.5	28.8
87.5°	4.6	9.7	11.5	11.5	10.4
90°	0.0	0.0	0.0	0.0	0.0
92.5°	11.2	59.4	137.8	40.1	30.2
95°	36.4	144.5	649.6	224.8	138.6
97.5°	66.9	169.3	1000.5	715.9	490.6
100°	88.2	184.0	1076.6	1090.5	840.0
102.5°	111.7	199.9	1059.8	1395.9	1177.1
105°	148.4	225.1	973.0	1718.7	1633.8
107.5°	185.6	254.4	871.7	1809.7	1885.3
110°	211.4	275.7	813.4	1774.9	1944.6

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	236.0	297.1	774.2	1692.5	1934.6
115°	275.8	333.3	737.8	1563.0	1835.4
117.5°	310.8	364.7	716.3	1421.4	1710.0
120°	338.8	384.0	714.0	1340.5	1617.0
122.5°	361.2	406.4	708.4	1269.5	1526.3
125°	389.2	431.6	704.2	1168.6	1397.2
127.5°	419.7	459.4	702.0	1108.3	1296.7
130°	435.4	475.1	698.6	1066.4	1230.6
132.5°	452.2	490.8	698.6	1033.6	1184.7
135°	476.0	515.7	695.8	987.1	1115.8
137.5°	498.4	537.0	695.5	947.8	1059.0
140°	515.2	554.9	694.4	915.2	1022.0
142.5°	534.3	567.4	697.8	889.2	985.1
145°	561.4	590.2	701.4	854.4	931.0
147.5°	584.7	612.6	707.6	819.1	885.4
150°	604.8	624.0	709.8	807.5	854.0
152.5°	620.5	640.8	712.1	791.7	835.0
155°	641.2	656.3	718.2	772.1	803.6
157.5°	667.0	676.0	719.6	763.2	785.7
160°	680.4	687.3	725.2	756.5	775.6
162.5°	688.3	696.2	726.3	750.8	765.5
165°	708.4	711.2	726.6	742.3	753.2
167.5°	722.1	719.7	733.1	740.2	744.5
170°	726.6	725.2	730.8	732.3	737.8
172.5°	736.7	732.0	734.2	730.1	734.5
175°	742.0	737.9	735.0	730.7	725.2
177.5°	744.3	737.7	734.2	729.7	730.8
180°	736.4	736.4	736.4	736.4	736.4

(END OF REPORT)