

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: P562711

Luminaire Tested: **SQ4-PC3-075U-050D-930-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562711  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-930-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

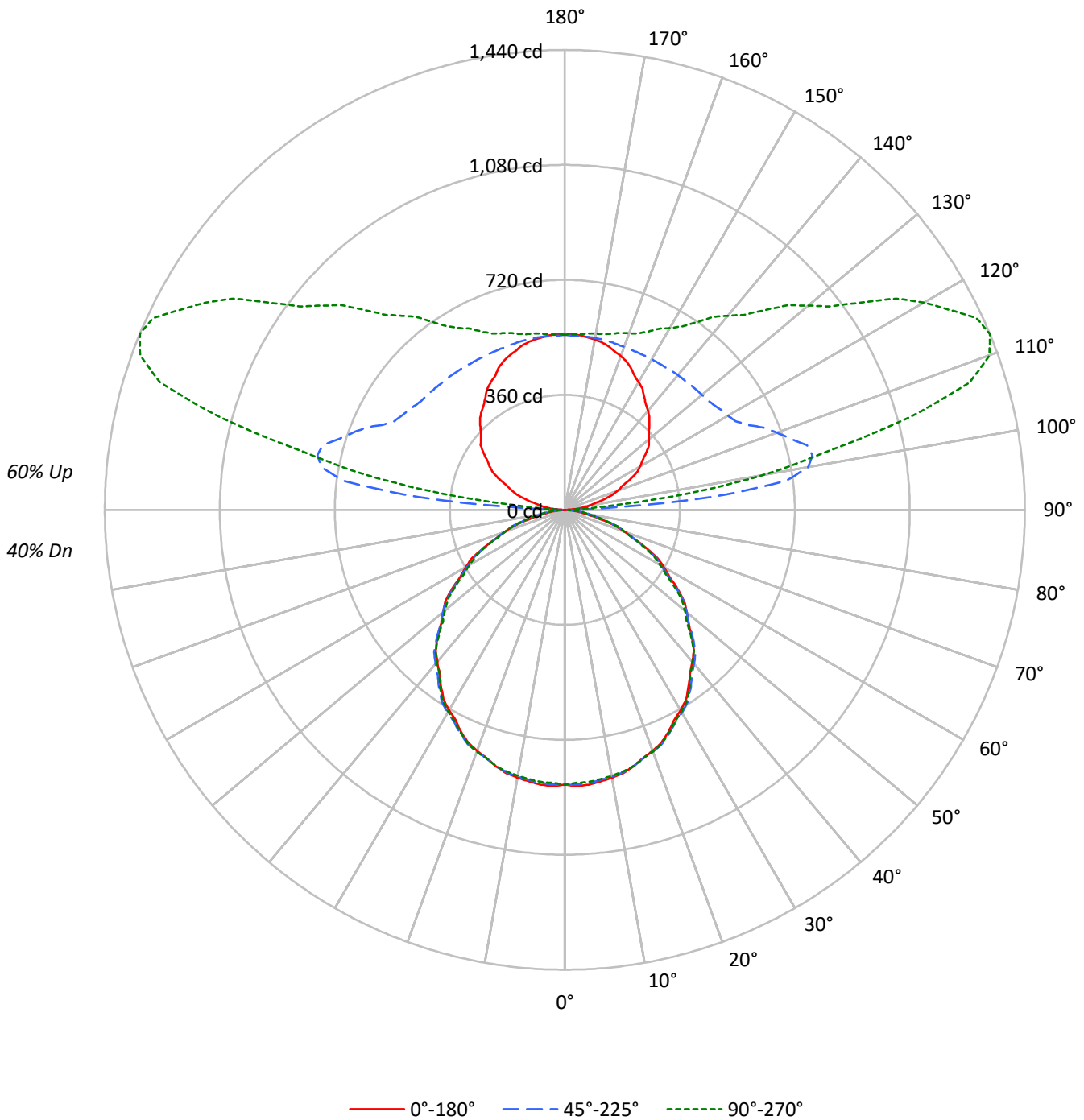
Lumens per Lamp: N/A  
Luminaire Lumens: 5923.9 lumens  
Efficiency: N/A  
Efficacy: 109.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 54.3  
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	50	30	10	0	
RCR																						
0	105	105	105	105	95	95	95	95	78	78	78	61	61	61	47	47	47	40				
1	96	91	87	84	87	83	80	77	68	66	64	54	53	51	41	40	39	34				
2	87	80	74	69	79	73	68	63	60	56	53	48	45	43	36	35	33	28				
3	79	70	63	57	72	64	58	53	53	48	44	42	39	36	32	30	28	24				
4	72	62	54	48	66	57	50	45	47	42	38	37	34	31	29	26	24	20				
5	66	55	47	41	60	50	43	38	42	36	32	33	30	27	26	23	21	18				
6	61	49	41	36	55	45	38	33	37	32	28	30	26	23	23	21	19	15				
7	56	44	37	31	51	41	34	29	34	29	25	27	23	21	21	19	16	14				
8	52	40	33	27	47	37	30	25	31	26	22	25	21	18	20	17	15	12				
9	49	37	29	24	44	34	27	23	28	23	19	23	19	16	18	15	13	11				
10	45	33	26	22	41	31	25	20	26	21	17	21	17	15	17	14	12	10				

**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	1.4
10°-20°	233.8	3.9
20°-30°	354.0	6.0
30°-40°	424.4	7.2
40°-50°	432.7	7.3
50°-60°	377.7	6.4
60°-70°	270.4	4.6
70°-80°	139.3	2.4
80°-90°	36.6	0.6
90°-100°	258.7	4.4
100°-110°	711.8	12.0
110°-120°	734.7	12.4
120°-130°	588.6	9.9
130°-140°	462.3	7.8
140°-150°	354.3	6.0
150°-160°	254.7	4.3
160°-170°	155.8	2.6
170°-180°	52.5	0.9
0°-30°	669.2	11.3
0°-40°	1093.6	18.5
0°-60°	1904.1	32.1
0°-90°	2350.4	39.7
90°-120°	1705.2	28.8
90°-150°	3110.5	52.5
90°-180°	3573.0	60.3
0°-180°	5923.9	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°	1	5	8	10	10	3
95°	38	141	458	196	125	41
105°	127	196	784	1194	1115	134
115°	225	274	629	1253	1422	222
125°	310	354	571	965	1131	277
135°	375	416	554	781	884	289
145°	433	463	546	665	717	272
155°	490	506	543	598	615	225
165°	530	537	545	567	571	149
175°	548	550	546	553	552	52
180°	548	548	548	548	548	



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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°	5.3	11.6	14.4	14.8	13.6
90°	1.2	4.6	8.2	10.5	10.5
92.5°	16.1	68.8	119.3	45.8	37.6
95°	38.5	141.2	457.5	195.6	124.9
97.5°	62.8	156.6	698.2	537.9	379.5
100°	80.5	166.1	773.8	781.0	637.2
102.5°	97.3	177.4	793.4	969.0	837.0
105°	127.2	195.7	784.3	1194.5	1114.6
107.5°	155.7	218.2	739.7	1304.9	1328.6
110°	176.2	233.3	706.1	1332.4	1414.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	194.9	250.1	672.5	1314.7	1439.7
115°	225.2	274.3	629.1	1252.6	1421.5
117.5°	254.2	299.4	601.5	1165.6	1356.6
120°	271.9	315.3	589.4	1100.4	1297.8
122.5°	287.8	331.2	581.0	1043.2	1230.6
125°	310.4	353.8	570.7	965.4	1130.9
127.5°	331.9	373.2	563.9	900.6	1045.7
130°	343.1	385.3	560.2	862.0	994.4
132.5°	356.2	398.4	557.4	828.1	947.7
135°	374.6	415.7	554.4	780.8	883.5
137.5°	391.9	430.0	551.8	742.6	827.2
140°	405.0	440.4	550.9	717.2	793.6
142.5°	416.2	448.8	549.0	694.5	760.0
145°	433.0	462.7	546.2	665.2	716.6
147.5°	451.0	476.5	544.8	639.3	680.4
150°	462.2	485.0	543.9	625.1	657.1
152.5°	472.4	493.4	542.9	612.9	639.3
155°	490.2	506.2	542.7	597.9	615.1
157.5°	503.0	516.0	542.7	585.7	597.6
160°	512.4	522.6	542.7	579.1	588.2
162.5°	519.8	528.3	543.6	573.4	580.7
165°	529.9	536.7	545.0	567.3	570.7
167.5°	536.9	542.1	546.2	562.1	563.0
170°	541.5	545.0	546.2	560.2	560.2
172.5°	545.3	546.9	546.2	557.4	556.5
175°	548.5	549.7	546.2	553.2	552.0
177.5°	549.5	549.5	545.7	551.3	549.5
180°	548.5	548.5	548.5	548.5	548.5

(END OF REPORT)