

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: P561730

Luminaire Tested: **SQ4-PC3-150U-050D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P561730  
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-PC3-150U-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 1500 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

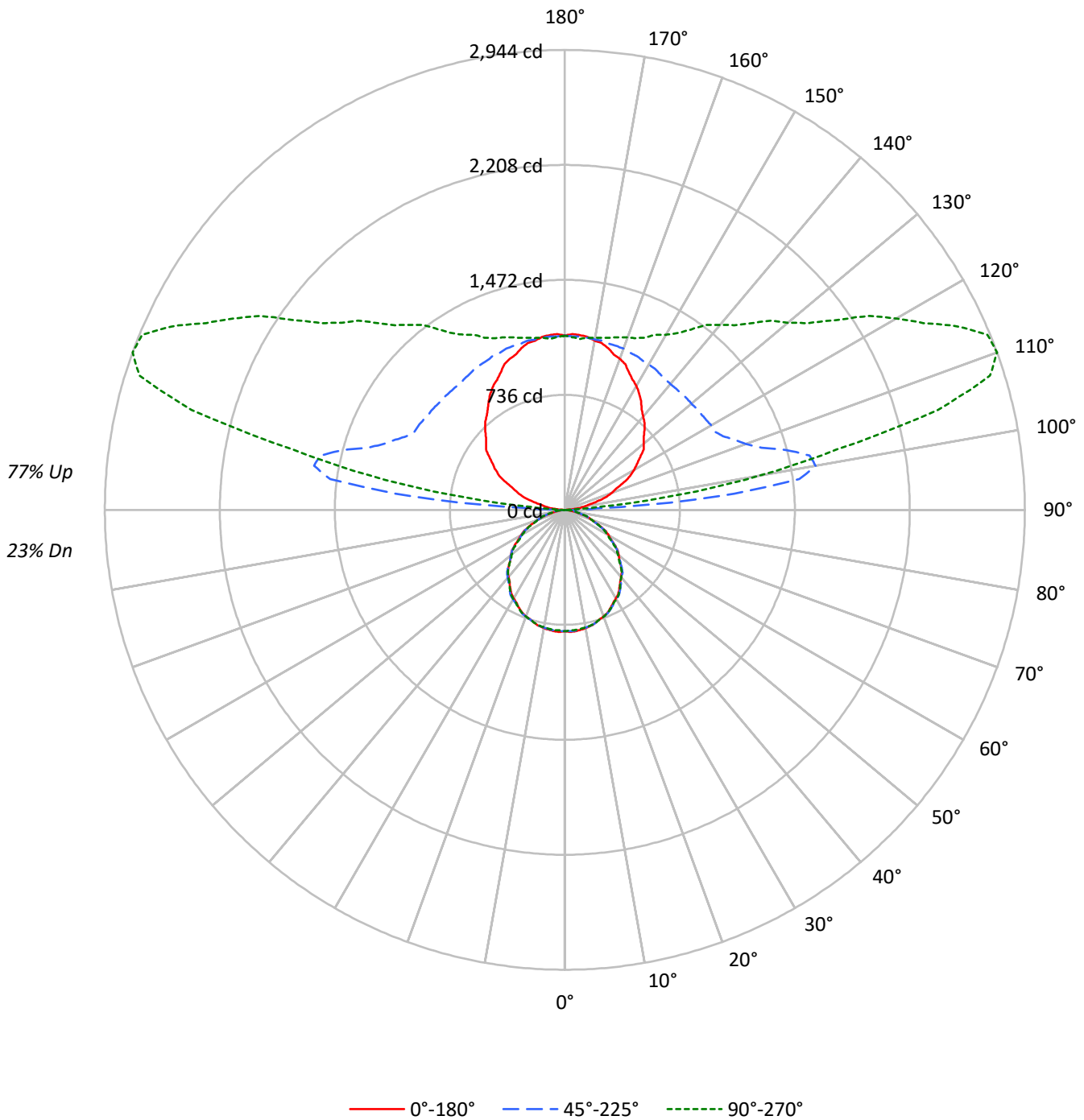
Lumens per Lamp: N/A  
Luminaire Lumens: 9045.4 lumens  
Efficiency: N/A  
Efficacy: 126.0 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 71.8  
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	101	101	101	101	90	90	90	90	69	69	69	49	49	49	32	32	32	23				
1	92	88	84	81	81	78	75	72	60	58	56	43	42	41	28	27	27	20				
2	84	77	71	66	74	68	63	59	53	49	46	38	36	34	25	24	23	17				
3	76	67	60	55	67	60	54	49	46	42	39	34	31	29	22	20	19	14				
4	70	59	52	46	62	53	47	42	41	37	33	30	27	25	19	18	16	12				
5	64	53	45	39	56	47	40	36	36	32	28	27	24	21	17	16	14	10				
6	59	47	39	34	52	42	35	31	33	28	24	24	21	18	16	14	12	9				
7	54	42	35	29	48	38	31	27	30	25	21	22	19	16	14	12	11	8				
8	50	38	31	26	44	34	28	23	27	22	19	20	17	14	13	11	10	7				
9	46	35	28	23	41	31	25	21	24	20	17	18	15	13	12	10	9	6				
10	43	32	25	20	38	28	22	18	22	18	15	17	14	11	11	9	8	6				

**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	0.8
10°-20°	211.1	2.3
20°-30°	319.7	3.5
30°-40°	383.2	4.2
40°-50°	390.8	4.3
50°-60°	341.1	3.8
60°-70°	244.2	2.7
70°-80°	125.8	1.4
80°-90°	31.8	0.4
90°-100°	507.9	5.6
100°-110°	1445.2	16.0
110°-120°	1384.7	15.3
120°-130°	1095.9	12.1
130°-140°	879.7	9.7
140°-150°	688.7	7.6
150°-160°	503.9	5.6
160°-170°	312.1	3.5
170°-180°	105.9	1.2
0°-30°	604.3	6.7
0°-40°	987.6	10.9
0°-60°	1719.5	19.0
0°-90°	2121.3	23.5
90°-120°	3337.9	36.9
90°-150°	6002.1	66.4
90°-180°	6924.0	76.5
0°-180°	9045.4	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	3
95°	55	219	983	340	210	63
105°	225	341	1473	2602	2473	238
115°	418	504	1117	2366	2778	411
125°	589	653	1066	1769	2115	527
135°	720	781	1053	1494	1689	556
145°	850	893	1062	1293	1409	531
155°	971	993	1087	1169	1216	449
165°	1072	1076	1100	1124	1140	302
175°	1123	1117	1113	1106	1098	106
180°	1115	1115	1115	1115	1115	

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CATALOG NUMBER: SQ4-PC3-150U-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°	17.0	89.9	208.5	60.7	45.8
95°	55.1	218.8	983.3	340.3	209.8
97.5°	101.3	256.3	1514.4	1083.6	742.6
100°	133.5	278.6	1629.6	1650.7	1271.5
102.5°	169.1	302.6	1604.2	2112.9	1781.8
105°	224.6	340.7	1472.8	2601.5	2473.1
107.5°	281.0	385.0	1319.4	2739.3	2853.7
110°	320.0	417.4	1231.2	2686.6	2943.5

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	357.3	449.7	1171.9	2561.9	2928.3
115°	417.5	504.5	1116.8	2365.9	2778.2
117.5°	470.5	552.1	1084.2	2151.6	2588.3
120°	512.8	581.2	1080.8	2029.1	2447.6
122.5°	546.7	615.1	1072.3	1921.6	2310.3
125°	589.1	653.4	1065.9	1768.9	2114.9
127.5°	635.3	695.4	1062.5	1677.6	1962.8
130°	659.1	719.1	1057.5	1614.1	1862.7
132.5°	684.5	742.9	1057.5	1564.5	1793.2
135°	720.5	780.6	1053.2	1494.2	1689.0
137.5°	754.4	812.9	1052.8	1434.7	1602.9
140°	779.9	839.9	1051.1	1385.4	1547.0
142.5°	808.7	858.8	1056.2	1346.0	1491.0
145°	849.8	893.3	1061.7	1293.2	1409.2
147.5°	885.0	927.2	1071.0	1239.9	1340.2
150°	915.5	944.5	1074.4	1222.2	1292.7
152.5°	939.2	969.9	1077.8	1198.4	1263.9
155°	970.6	993.4	1087.1	1168.7	1216.4
157.5°	1009.6	1023.2	1089.2	1155.3	1189.3
160°	1029.9	1040.3	1097.7	1145.0	1174.0
162.5°	1041.8	1053.8	1099.4	1136.4	1158.8
165°	1072.3	1076.4	1099.8	1123.5	1140.1
167.5°	1093.1	1089.3	1109.6	1120.3	1127.0
170°	1099.8	1097.8	1106.2	1108.5	1116.8
172.5°	1115.1	1108.1	1111.3	1105.1	1111.7
175°	1123.2	1116.9	1112.6	1106.0	1097.7
177.5°	1126.5	1116.6	1111.3	1104.5	1106.2
180°	1114.7	1114.7	1114.7	1114.7	1114.7

(END OF REPORT)