

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: P561647

Luminaire Tested: **SQ4-PC3-100U-100D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P561647  
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-100D-92765-1D-UNV-STD-W-4 (2700K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8002.6 lumens  
Efficiency: N/A  
Efficacy: 107.3 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: General Diffuse

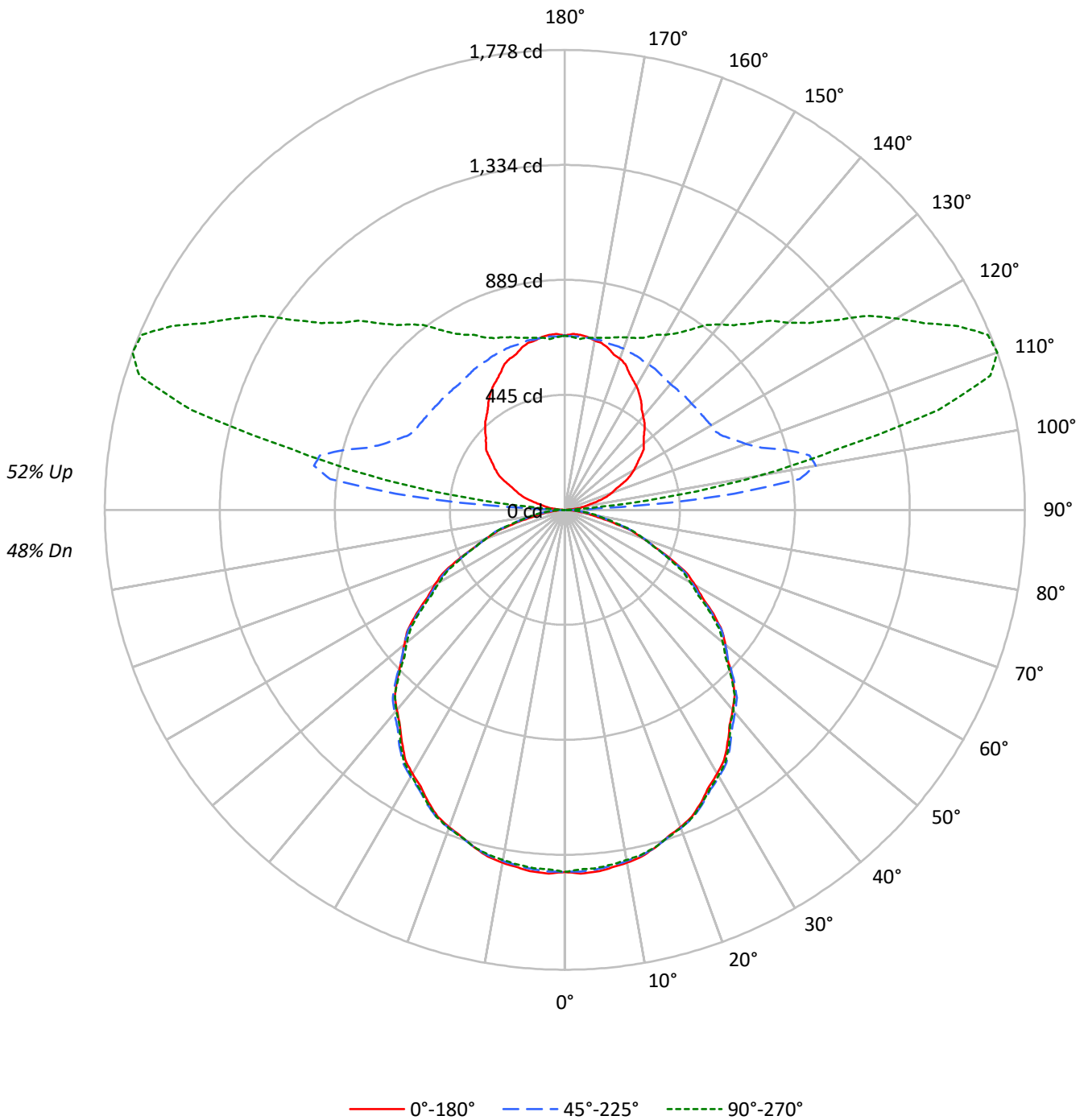
Input Watts (W): 74.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54	48
1	97	93	89	86	89	86	82	79	72	70	68	59	58	56	48	47	46	40
2	89	81	75	70	81	75	70	65	63	59	56	52	49	47	42	40	39	34
3	81	71	64	58	74	66	60	54	56	51	47	46	43	40	37	35	33	29
4	74	63	55	49	68	58	51	46	49	44	40	41	37	34	33	30	28	24
5	68	56	48	42	62	52	45	40	44	39	34	37	33	29	30	27	25	21
6	62	50	42	36	57	47	39	34	40	34	30	33	29	26	27	24	22	19
7	58	45	37	32	53	42	35	30	36	30	26	30	26	23	25	22	19	16
8	53	41	33	28	49	38	31	27	33	27	23	28	23	20	23	19	17	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	15	13
10	46	34	27	22	43	32	26	21	28	22	19	23	19	16	19	16	14	12

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	12911	12911	12911
5°	13009	12924	12877
10°	12977	12916	12880
15°	12909	12909	12897
20°	12824	12862	12862
25°	12703	12795	12756
30°	12548	12700	12645
35°	12361	12552	12464
40°	12157	12329	12204
45°	11936	12021	11834
50°	11625	11625	11438
55°	11255	11109	10943
60°	10712	10496	10330
65°	9900	9702	9619
70°	8667	8737	8702
75°	6976	7714	7760
80°	4957	6540	6610
85°	3017	5483	5483



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	132.4	1.7
10°-20°	380.1	4.7
20°-30°	575.6	7.2
30°-40°	690.0	8.6
40°-50°	703.6	8.8
50°-60°	614.2	7.7
60°-70°	439.7	5.5
70°-80°	226.5	2.8
80°-90°	57.3	0.7
90°-100°	306.9	3.8
100°-110°	873.2	10.9
110°-120°	836.6	10.5
120°-130°	662.1	8.3
130°-140°	531.5	6.6
140°-150°	416.1	5.2
150°-160°	304.4	3.8
160°-170°	188.6	2.4
170°-180°	64.0	0.8
0°-30°	1088.1	13.6
0°-40°	1778.1	22.2
0°-60°	3095.9	38.7
0°-90°	3819.3	47.7
90°-120°	2016.7	25.2
90°-150°	3626.3	45.3
90°-180°	4183.0	52.3
0°-180°	8002.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1399	1399	1399	1399	1399	
5°	1405	1391	1396	1392	1390	133
15°	1352	1340	1352	1351	1350	381
25°	1248	1239	1257	1253	1253	574
35°	1098	1095	1114	1107	1107	686
45°	915	912	921	910	907	704
55°	700	691	691	680	680	624
65°	454	443	444	441	441	449
75°	196	204	216	218	218	211
85°	28	44	52	53	52	39
90°	0	0	0	0	0	3
95°	33	132	594	206	127	38
105°	136	206	890	1572	1494	144
115°	252	305	675	1429	1678	248
125°	356	395	644	1069	1278	319
135°	435	472	636	903	1020	336
145°	513	540	642	781	851	321
155°	586	600	657	706	735	271
165°	648	650	664	679	689	182
175°	679	675	672	668	663	64
180°	674	674	674	674	674	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1399.4	1399.4	1399.4	1399.4	1399.4
2.5°	1407.7	1395.6	1399.4	1396.2	1391.1
5°	1404.6	1390.7	1395.5	1391.6	1390.4
7.5°	1394.5	1380.6	1387.0	1384.4	1383.1
10°	1385.2	1371.2	1378.7	1376.1	1374.8
12.5°	1372.7	1359.8	1368.3	1365.7	1365.5
15°	1351.5	1340.1	1351.5	1351.4	1350.2
17.5°	1324.8	1314.4	1326.6	1327.4	1326.6
20°	1306.1	1294.7	1310.0	1308.7	1310.0
22.5°	1283.3	1273.9	1290.3	1287.0	1288.2
25°	1247.8	1238.9	1256.9	1253.0	1253.0
27.5°	1205.8	1199.5	1219.1	1214.9	1214.9
30°	1177.8	1171.5	1192.1	1186.9	1186.9
32.5°	1146.7	1142.4	1162.0	1155.8	1155.8
35°	1097.5	1095.0	1114.4	1106.6	1106.6
37.5°	1046.7	1044.4	1062.0	1052.6	1049.6
40°	1009.4	1008.1	1023.7	1013.3	1013.3
42.5°	972.1	970.8	984.3	971.8	971.8
45°	914.8	912.3	921.3	909.6	907.0
47.5°	852.4	849.8	855.5	842.7	841.5
50°	809.9	807.3	809.9	798.2	796.9
52.5°	766.3	761.8	762.2	750.5	750.2
55°	699.7	690.8	690.6	680.3	680.3
57.5°	629.2	617.6	618.6	609.8	608.5
60°	580.5	567.8	568.8	561.0	559.8
62.5°	532.8	518.1	521.2	512.3	512.1
65°	453.5	443.4	444.4	440.6	440.6
67.5°	377.3	367.9	374.7	371.6	371.4
70°	321.3	315.0	323.9	323.9	322.6
72.5°	269.5	269.3	280.4	280.4	281.2
75°	195.7	204.5	216.4	217.7	217.7
77.5°	130.6	146.3	159.4	159.9	159.6
80°	93.3	111.0	123.1	125.7	124.4
82.5°	63.2	82.0	92.0	94.6	93.3
85°	28.5	43.7	51.8	53.1	51.8
87.5°	8.3	17.4	20.7	20.7	18.7
90°	0.0	0.0	0.0	0.0	0.0
92.5°	10.2	54.3	126.0	36.7	27.7
95°	33.3	132.2	594.1	205.6	126.8
97.5°	61.2	154.8	914.9	654.7	448.6
100°	80.7	168.3	984.6	997.3	768.2
102.5°	102.2	182.8	969.2	1276.6	1076.5
105°	135.7	205.8	889.8	1571.8	1494.2
107.5°	169.8	232.6	797.1	1655.0	1724.1
110°	193.3	252.2	743.9	1623.2	1778.4

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	215.9	271.7	708.0	1547.9	1769.2
115°	252.2	304.8	674.7	1429.4	1678.5
117.5°	284.2	333.6	655.0	1299.9	1563.8
120°	309.8	351.2	653.0	1225.9	1478.8
122.5°	330.3	371.6	647.9	1161.0	1395.8
125°	355.9	394.7	644.0	1068.7	1277.8
127.5°	383.8	420.2	642.0	1013.6	1185.9
130°	398.2	434.5	638.9	975.2	1125.4
132.5°	413.6	448.9	638.9	945.2	1083.4
135°	435.3	471.6	636.3	902.8	1020.4
137.5°	455.8	491.1	636.1	866.8	968.5
140°	471.2	507.5	635.1	837.0	934.7
142.5°	488.6	518.9	638.1	813.2	900.9
145°	513.4	539.7	641.5	781.3	851.4
147.5°	534.7	560.2	647.1	749.1	809.7
150°	553.1	570.6	649.1	738.5	781.0
152.5°	567.5	586.0	651.2	724.0	763.6
155°	586.4	600.2	656.8	706.1	734.9
157.5°	610.0	618.2	658.1	698.0	718.5
160°	622.3	628.5	663.2	691.8	709.3
162.5°	629.4	636.7	664.2	686.6	700.1
165°	647.9	650.4	664.5	678.8	688.8
167.5°	660.4	658.2	670.4	676.9	680.9
170°	664.5	663.3	668.3	669.7	674.7
172.5°	673.7	669.5	671.4	667.7	671.7
175°	678.6	674.8	672.2	668.2	663.2
177.5°	680.6	674.6	671.4	667.3	668.3
180°	673.5	673.5	673.5	673.5	673.5

(END OF REPORT)