

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: P561744

Luminaire Tested: **SQ4-PC3-150U-075D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P561744  
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-075D-92765-1D-UNV-STD-W-4 (5700K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10244.9 lumens  
Efficiency: N/A  
Efficacy: 123.7 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

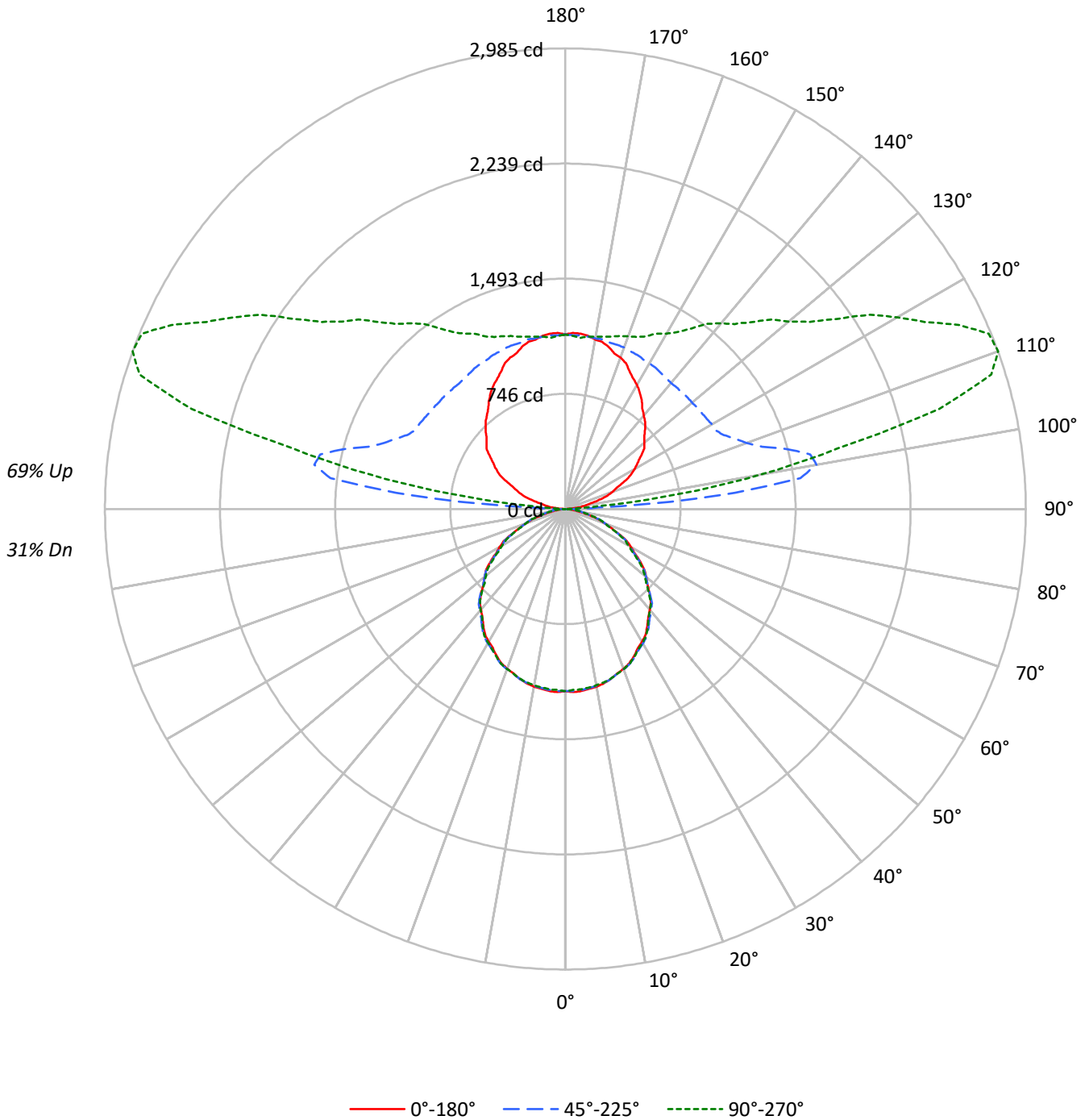
Input Watts (W): 82.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	0
RCR																		
0	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	31
1	94	89	86	82	84	81	77	75	64	62	60	49	47	46	35	34	33	27
2	85	78	72	67	76	70	65	61	56	53	50	43	40	38	30	29	28	22
3	78	69	62	56	70	62	56	51	49	45	42	38	35	32	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	19	18	14
6	60	48	40	35	54	44	37	32	35	30	26	27	24	21	20	17	15	12
7	55	43	36	30	49	39	33	28	32	27	23	25	21	18	18	15	14	11
8	51	39	32	26	46	36	29	24	29	24	20	22	19	16	16	14	12	10
9	47	36	28	23	43	32	26	22	26	21	18	20	17	14	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°	10892	10892	10892
5°	10975	10904	10864
10°	10948	10897	10867
15°	10891	10891	10880
20°	10819	10851	10851
25°	10716	10795	10761
30°	10586	10714	10668
35°	10429	10588	10515
40°	10257	10401	10296
45°	10070	10142	9984
50°	9806	9806	9650
55°	9495	9373	9231
60°	9036	8855	8715
65°	8353	8187	8115
70°	7313	7372	7343
75°	5885	6509	6548
80°	4181	5520	5574
85°	2551	4626	4626



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	111.7	1.1
10°-20°	320.6	3.1
20°-30°	485.6	4.7
30°-40°	582.1	5.7
40°-50°	593.6	5.8
50°-60°	518.2	5.1
60°-70°	371.0	3.6
70°-80°	191.1	1.9
80°-90°	48.3	0.5
90°-100°	515.2	5.0
100°-110°	1465.8	14.3
110°-120°	1404.4	13.7
120°-130°	1111.5	10.8
130°-140°	892.2	8.7
140°-150°	698.5	6.8
150°-160°	511.1	5.0
160°-170°	316.6	3.1
170°-180°	107.4	1.0
0°-30°	918.0	9.0
0°-40°	1500.1	14.6
0°-60°	2611.9	25.5
0°-90°	3222.2	31.5
90°-120°	3385.4	33.0
90°-150°	6087.6	59.4
90°-180°	7023.0	68.6
0°-180°	10244.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1181	1181	1181	1181	1181	
5°	1185	1173	1177	1174	1173	112
15°	1140	1131	1140	1140	1139	321
25°	1053	1045	1060	1057	1057	484
35°	926	924	940	934	934	579
45°	772	770	777	767	765	594
55°	590	583	583	574	574	526
65°	383	374	375	372	372	378
75°	165	173	183	184	184	178
85°	24	37	44	45	44	33
90°	0	0	0	0	0	3
95°	56	222	997	345	213	64
105°	228	346	1494	2639	2508	241
115°	423	512	1133	2400	2818	417
125°	598	663	1081	1794	2145	535
135°	731	792	1068	1516	1713	564
145°	862	906	1077	1312	1429	538
155°	984	1008	1103	1185	1234	455
165°	1088	1092	1116	1140	1156	306
175°	1139	1133	1128	1122	1113	108
180°	1131	1131	1131	1131	1131	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1180.6	1180.6	1180.6	1180.6	1180.6
2.5°	1187.6	1177.4	1180.6	1177.9	1173.6
5°	1185.0	1173.3	1177.4	1174.1	1173.0
7.5°	1176.5	1164.7	1170.1	1167.9	1166.9
10°	1168.6	1156.9	1163.1	1160.9	1159.9
12.5°	1158.1	1147.2	1154.4	1152.2	1152.0
15°	1140.2	1130.6	1140.2	1140.2	1139.1
17.5°	1117.7	1108.9	1119.2	1119.8	1119.2
20°	1101.9	1092.3	1105.2	1104.1	1105.2
22.5°	1082.7	1074.8	1088.6	1085.8	1086.8
25°	1052.7	1045.3	1060.4	1057.1	1057.1
27.5°	1017.3	1012.0	1028.5	1025.0	1025.0
30°	993.7	988.4	1005.7	1001.4	1001.4
32.5°	967.5	963.8	980.4	975.1	975.1
35°	925.9	923.8	940.1	933.6	933.6
37.5°	883.1	881.1	896.0	888.0	885.5
40°	851.6	850.5	863.6	854.9	854.9
42.5°	820.1	819.0	830.4	819.9	819.9
45°	771.8	769.6	777.3	767.4	765.2
47.5°	719.1	717.0	721.7	711.0	709.9
50°	683.2	681.1	683.2	673.4	672.3
52.5°	646.5	642.7	643.0	633.2	633.0
55°	590.3	582.8	582.7	573.9	573.9
57.5°	530.8	521.0	521.9	514.4	513.4
60°	489.7	479.1	479.9	473.3	472.3
62.5°	449.5	437.1	439.7	432.2	432.0
65°	382.6	374.1	375.0	371.7	371.7
67.5°	318.3	310.4	316.1	313.5	313.3
70°	271.1	265.8	273.3	273.3	272.2
72.5°	227.4	227.2	236.6	236.6	237.2
75°	165.1	172.6	182.6	183.7	183.7
77.5°	110.2	123.4	134.5	134.9	134.7
80°	78.7	93.7	103.9	106.0	104.9
82.5°	53.3	69.2	77.6	79.8	78.7
85°	24.1	36.9	43.7	44.8	43.7
87.5°	7.0	14.7	17.5	17.5	15.7
90°	0.0	0.0	0.0	0.0	0.0
92.5°	17.2	91.2	211.5	61.6	46.4
95°	55.9	221.9	997.3	345.2	212.8
97.5°	102.7	259.9	1535.9	1099.1	753.1
100°	135.4	282.5	1652.8	1674.2	1289.6
102.5°	171.5	306.9	1627.1	2143.0	1807.2
105°	227.8	345.5	1493.8	2638.6	2508.3
107.5°	285.0	390.5	1338.2	2778.3	2894.3
110°	324.6	423.3	1248.8	2724.8	2985.4

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	362.4	456.1	1188.6	2598.4	2970.0
115°	423.4	511.7	1132.7	2399.6	2817.8
117.5°	477.2	560.0	1099.6	2182.2	2625.2
120°	520.1	589.5	1096.2	2058.0	2482.5
122.5°	554.5	623.9	1087.6	1949.0	2343.2
125°	597.5	662.7	1081.1	1794.1	2145.0
127.5°	644.4	705.3	1077.7	1701.5	1990.7
130°	668.4	729.4	1072.5	1637.1	1889.3
132.5°	694.2	753.5	1072.5	1586.8	1818.8
135°	730.8	791.7	1068.2	1515.5	1713.0
137.5°	765.2	824.4	1067.8	1455.1	1625.8
140°	791.0	851.9	1066.1	1405.1	1569.0
142.5°	820.2	871.0	1071.2	1365.2	1512.3
145°	861.9	906.0	1076.8	1311.6	1429.3
147.5°	897.6	940.4	1086.3	1257.5	1359.2
150°	928.5	957.9	1089.7	1239.6	1311.1
152.5°	952.6	983.7	1093.2	1215.5	1281.9
155°	984.4	1007.5	1102.6	1185.4	1233.7
157.5°	1023.9	1037.8	1104.8	1171.7	1206.2
160°	1044.6	1055.1	1113.4	1161.3	1190.7
162.5°	1056.6	1068.8	1115.1	1152.6	1175.3
165°	1087.6	1091.8	1115.5	1139.5	1156.3
167.5°	1108.6	1104.8	1125.4	1136.3	1143.0
170°	1115.5	1113.4	1122.0	1124.3	1132.7
172.5°	1131.0	1123.8	1127.1	1120.8	1127.5
175°	1139.2	1132.8	1128.4	1121.8	1113.4
177.5°	1142.6	1132.5	1127.1	1120.3	1122.0
180°	1130.6	1130.6	1130.6	1130.6	1130.6

(END OF REPORT)