

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: P562469

Luminaire Tested: **SQ4-PW1-150U-075D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562469  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PW1-150U-075D-92765-1D-UNV-STD-W-4 (4000K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

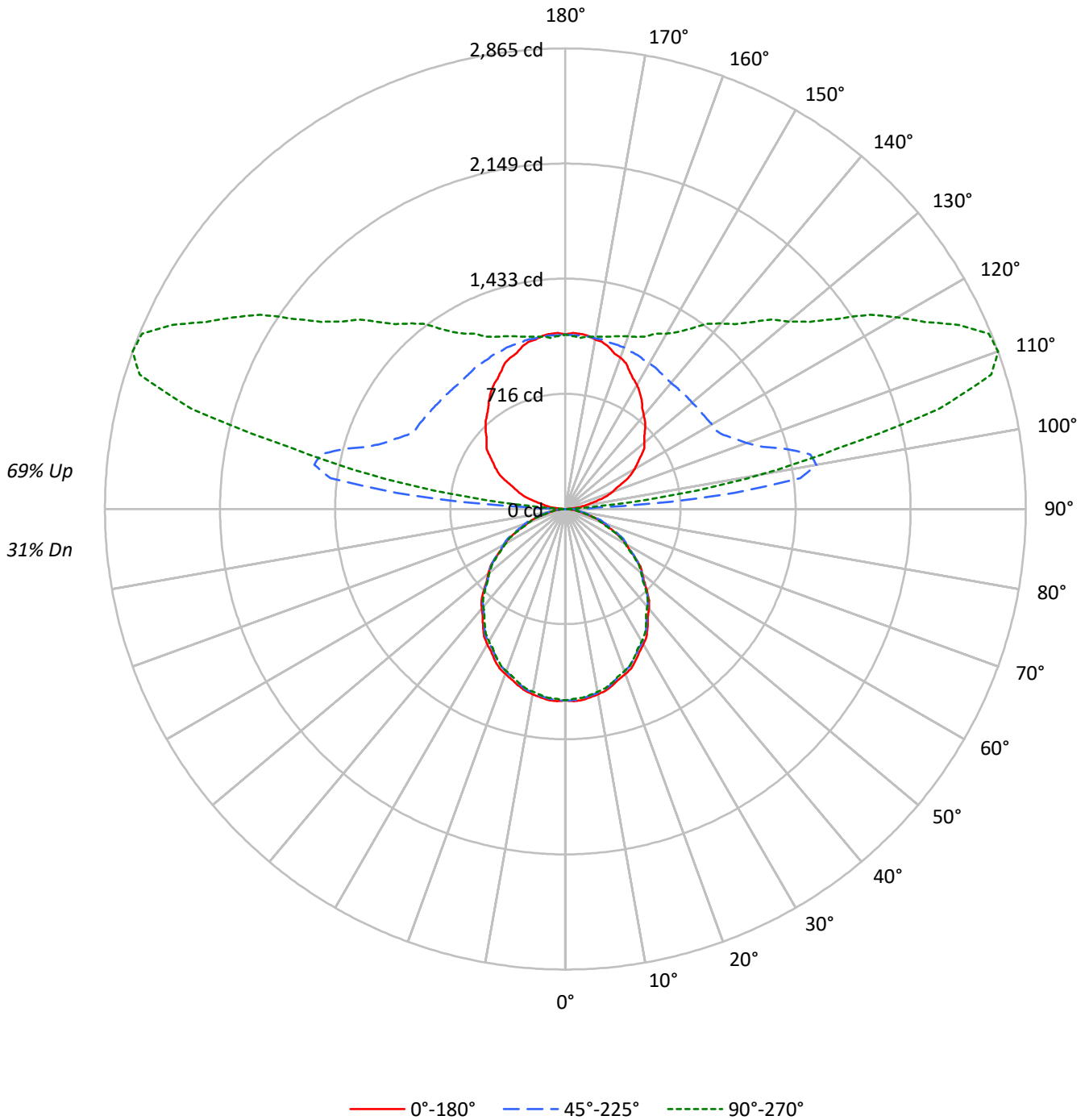
Lumens per Lamp: N/A  
Luminaire Lumens: 9769.1 lumens  
Efficiency: N/A  
Efficacy: 117.6 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 83.1  
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	48	47	46	34	33	33	26
2	85	78	72	67	76	70	65	61	56	52	49	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	33	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	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	25	29	24	20	22	19	16	16	14	12	10
9	48	36	29	24	43	33	26	22	26	22	18	21	17	15	15	13	11	9
10	44	33	26	21	40	30	24	19	24	20	16	19	16	13	14	12	10	8

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

	0°	45°	90°
0°	10986	10986	10986
5°	11057	10969	10921
10°	10969	10881	10822
15°	10853	10732	10692
20°	10723	10558	10537
25°	10573	10381	10349
30°	10350	10193	10126
35°	10056	9914	9855
40°	9742	9591	9552
45°	9363	9240	9199
50°	8975	8899	8839
55°	8556	8556	8421
60°	8034	8189	7898
65°	7353	7719	7169
70°	6480	7103	6312
75°	5536	6356	5386
80°	4293	5350	4346
85°	2774	4107	3663



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.1	1.1
10°-20°	316.6	3.2
20°-30°	469.6	4.8
30°-40°	549.4	5.6
40°-50°	547.0	5.6
50°-60°	472.3	4.8
60°-70°	340.0	3.5
70°-80°	178.3	1.8
80°-90°	44.2	0.5
90°-100°	494.4	5.1
100°-110°	1406.7	14.4
110°-120°	1347.8	13.8
120°-130°	1066.7	10.9
130°-140°	856.2	8.8
140°-150°	670.3	6.9
150°-160°	490.5	5.0
160°-170°	303.8	3.1
170°-180°	103.1	1.1
0°-30°	898.3	9.2
0°-40°	1447.7	14.8
0°-60°	2467.0	25.3
0°-90°	3029.5	31.0
90°-120°	3249.0	33.3
90°-150°	5842.2	59.8
90°-180°	6740.0	69.0
0°-180°	9769.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1191	1191	1191	1191	1191	
5°	1194	1181	1184	1181	1179	113
15°	1136	1122	1124	1122	1119	320
25°	1039	1021	1020	1014	1017	478
35°	893	880	880	872	875	558
45°	718	711	708	706	705	554
55°	532	531	532	524	524	475
65°	337	347	354	340	328	334
75°	155	170	178	166	151	166
85°	26	34	39	37	35	35
90°	0	0	0	0	0	3
95°	54	213	957	331	204	61
105°	219	332	1434	2532	2407	231
115°	406	491	1087	2303	2704	400
125°	573	636	1038	1722	2059	513
135°	701	760	1025	1454	1644	541
145°	827	870	1033	1259	1372	517
155°	945	967	1058	1138	1184	437
165°	1044	1048	1070	1094	1110	294
175°	1093	1087	1083	1076	1068	104
180°	1085	1085	1085	1085	1085	

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CATALOG NUMBER: SQ4-PW1-150U-075D-92765-1D-UNV-STD-W-4 (4000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1190.7	1190.7	1190.7	1190.7	1190.7
2.5°	1197.5	1187.6	1190.7	1188.1	1182.3
5°	1193.9	1180.6	1184.4	1181.3	1179.2
7.5°	1181.7	1169.4	1172.3	1168.9	1167.7
10°	1170.8	1158.5	1161.4	1157.1	1155.1
12.5°	1158.2	1145.1	1147.9	1143.7	1142.5
15°	1136.2	1121.8	1123.6	1121.5	1119.4
17.5°	1110.6	1096.0	1096.3	1093.0	1092.5
20°	1092.1	1076.7	1075.3	1071.2	1073.2
22.5°	1072.0	1055.8	1054.4	1048.5	1051.4
25°	1038.6	1021.2	1019.7	1013.5	1016.6
27.5°	1000.0	982.8	982.8	974.1	977.4
30°	971.5	955.1	956.8	946.4	950.5
32.5°	941.3	926.5	927.4	917.0	921.1
35°	892.8	880.5	880.2	871.9	875.0
37.5°	843.3	832.4	830.7	825.9	826.7
40°	808.9	799.6	796.3	793.1	793.1
42.5°	772.8	764.4	761.0	758.7	757.9
45°	717.6	711.4	708.2	706.0	705.0
47.5°	663.0	657.3	654.4	652.9	651.9
50°	625.3	621.2	620.0	616.9	615.8
52.5°	587.5	585.0	583.9	579.9	578.9
55°	531.9	530.9	531.9	524.5	523.5
57.5°	474.0	475.6	479.0	469.1	466.6
60°	435.4	439.5	443.8	432.1	428.0
62.5°	395.9	402.5	408.5	395.2	389.4
65°	336.8	347.0	353.6	339.7	328.4
67.5°	279.7	292.4	300.3	285.3	272.6
70°	240.2	254.6	263.3	248.3	234.0
72.5°	205.8	221.8	228.9	214.7	200.4
75°	155.3	169.6	178.3	166.5	151.1
77.5°	110.2	123.7	130.9	120.6	107.8
80°	80.8	95.1	100.7	92.1	81.8
82.5°	57.3	69.2	73.0	67.8	60.8
85°	26.2	34.4	38.8	36.7	34.6
87.5°	6.7	12.5	15.9	16.0	16.8
90°	0.0	0.0	0.0	0.0	0.0
92.5°	16.5	87.5	203.0	59.1	44.6
95°	53.6	213.0	957.1	331.3	204.2
97.5°	98.6	249.5	1474.0	1054.7	722.8
100°	129.9	271.1	1586.2	1606.7	1237.6
102.5°	164.6	294.5	1561.5	2056.6	1734.3
105°	218.6	331.6	1433.6	2532.2	2407.2
107.5°	273.5	374.8	1284.2	2666.3	2777.6
110°	311.5	406.3	1198.4	2615.0	2865.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	347.8	437.7	1140.7	2493.7	2850.2
115°	406.4	491.1	1087.0	2302.8	2704.2
117.5°	457.9	537.4	1055.3	2094.2	2519.4
120°	499.2	565.7	1052.0	1975.0	2382.4
122.5°	532.2	598.7	1043.7	1870.4	2248.8
125°	573.4	636.0	1037.5	1721.8	2058.6
127.5°	618.4	676.9	1034.2	1632.9	1910.5
130°	641.5	700.0	1029.3	1571.1	1813.1
132.5°	666.3	723.1	1029.3	1522.8	1745.5
135°	701.3	759.8	1025.2	1454.4	1644.0
137.5°	734.3	791.2	1024.7	1396.5	1560.2
140°	759.1	817.6	1023.1	1348.5	1505.8
142.5°	787.1	835.9	1028.0	1310.1	1451.3
145°	827.1	869.5	1033.4	1258.7	1371.7
147.5°	861.4	902.5	1042.5	1206.8	1304.4
150°	891.1	919.3	1045.8	1189.7	1258.2
152.5°	914.2	944.0	1049.1	1166.5	1230.2
155°	944.7	966.9	1058.2	1137.6	1184.0
157.5°	982.7	996.0	1060.2	1124.5	1157.6
160°	1002.5	1012.6	1068.5	1114.5	1142.7
162.5°	1014.0	1025.7	1070.1	1106.1	1127.9
165°	1043.7	1047.8	1070.5	1093.6	1109.7
167.5°	1063.9	1060.3	1080.0	1090.5	1096.9
170°	1070.5	1068.5	1076.7	1079.0	1087.0
172.5°	1085.4	1078.5	1081.7	1075.6	1082.1
175°	1093.2	1087.2	1082.9	1076.5	1068.5
177.5°	1096.5	1086.8	1081.7	1075.1	1076.7
180°	1085.0	1085.0	1085.0	1085.0	1085.0

(END OF REPORT)