

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: P564463

Luminaire Tested: **SQ4-PR1-150U-075D-930-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564463  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2106-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PR1-150U-075D-930-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

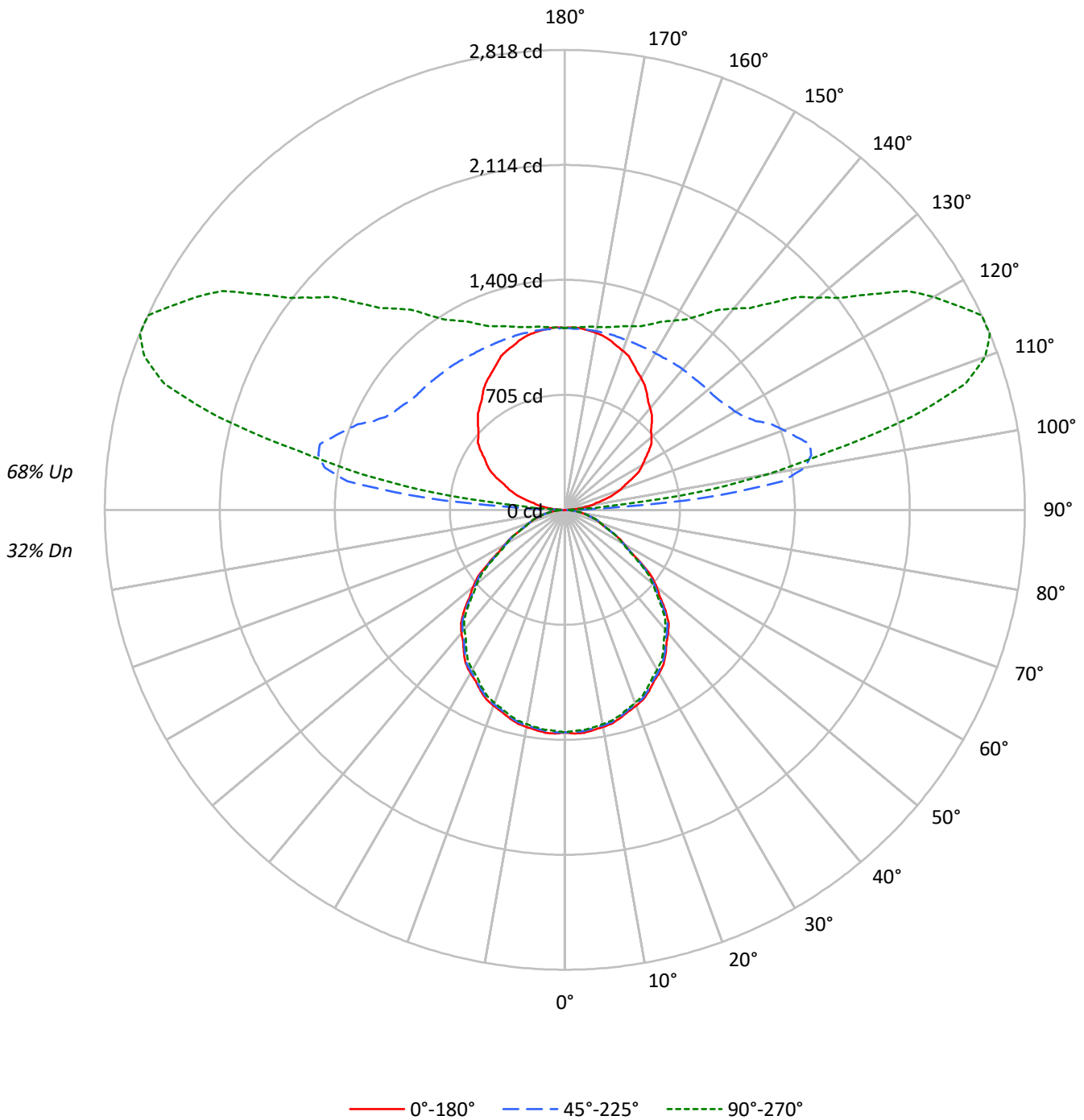
Lumens per Lamp: N/A  
Luminaire Lumens: 10601.9 lumens  
Efficiency: N/A  
Efficacy: 108.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 97.8  
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	93	93	93	93	73	73	73	56	56	56	40	40	40	32
1	94	90	86	83	84	81	78	75	65	62	60	49	48	47	35	35	34	27
2	86	79	73	68	77	71	66	62	57	53	50	44	41	39	31	30	29	23
3	78	69	62	57	70	63	57	52	50	46	42	39	36	33	28	26	25	20
4	72	61	54	48	64	55	49	44	45	40	36	34	31	29	25	23	21	17
5	66	55	47	41	59	49	43	38	40	35	31	31	28	25	23	20	19	15
6	60	49	41	35	54	44	38	33	36	31	27	28	24	22	20	18	16	13
7	56	44	36	31	50	40	33	29	32	27	24	25	22	19	19	16	15	12
8	52	40	32	27	46	36	30	25	30	25	21	23	20	17	17	15	13	11
9	48	36	29	24	43	33	27	22	27	22	19	21	18	15	16	14	12	10
10	45	33	26	22	40	30	24	20	25	20	17	20	16	14	15	12	11	9

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

	0°	45°	90°
0°	8388	8388	8388
5°	8464	8398	8354
10°	8437	8378	8334
15°	8400	8348	8302
20°	8357	8304	8242
25°	8299	8242	8147
30°	8209	8151	8033
35°	8088	8017	7902
40°	7903	7818	7677
45°	7582	7449	7295
50°	7014	6845	6710
55°	6122	5983	5857
60°	5158	5115	5014
65°	4462	4478	4445
70°	4098	4118	4118
75°	3935	3935	3964
80°	3702	3744	3702
85°	2985	3317	3317



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	129.0	1.2
10°-20°	369.0	3.5
20°-30°	556.5	5.2
30°-40°	663.1	6.3
40°-50°	653.8	6.2
50°-60°	499.6	4.7
60°-70°	309.2	2.9
70°-80°	175.6	1.7
80°-90°	55.7	0.5
90°-100°	518.3	4.9
100°-110°	1401.4	13.2
110°-120°	1473.3	13.9
120°-130°	1196.7	11.3
130°-140°	938.7	8.9
140°-150°	720.5	6.8
150°-160°	518.2	4.9
160°-170°	316.5	3.0
170°-180°	106.7	1.0
0°-30°	1054.4	9.9
0°-40°	1717.5	16.2
0°-60°	2870.9	27.1
0°-90°	3411.5	32.2
90°-120°	3393.0	32.0
90°-150°	6249.0	58.9
90°-180°	7190.0	67.8
0°-180°	10601.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1364	1364	1364	1364	1364	
5°	1371	1356	1360	1355	1353	130
15°	1319	1305	1311	1306	1304	372
25°	1223	1208	1214	1202	1200	563
35°	1077	1064	1068	1054	1052	672
45°	872	860	856	841	839	668
55°	571	562	558	548	546	512
65°	307	304	308	305	305	311
75°	166	166	166	167	167	175
85°	42	45	47	47	47	49
90°	2	7	16	17	16	7
95°	80	282	862	446	265	84
105°	260	402	1555	2293	2199	274
115°	459	561	1289	2496	2818	453
125°	628	719	1162	1961	2304	560
135°	753	842	1131	1583	1792	582
145°	875	941	1115	1355	1459	547
155°	988	1027	1106	1216	1256	456
165°	1076	1086	1110	1154	1160	303
175°	1116	1115	1112	1126	1124	106
180°	1115	1115	1115	1115	1115	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1363.7	1363.7	1363.7	1363.7	1363.7
2.5°	1372.2	1360.2	1363.7	1360.8	1354.3
5°	1370.8	1355.8	1360.2	1355.4	1353.1
7.5°	1360.2	1345.5	1349.9	1345.1	1343.7
10°	1350.8	1337.0	1341.4	1336.6	1334.4
12.5°	1340.5	1325.8	1331.1	1325.4	1323.1
15°	1319.1	1305.3	1310.9	1306.1	1303.8
17.5°	1295.6	1280.9	1286.4	1281.0	1278.0
20°	1276.8	1263.0	1268.6	1260.3	1259.2
22.5°	1256.1	1242.3	1247.9	1236.9	1236.6
25°	1222.8	1207.8	1214.5	1201.6	1200.4
27.5°	1183.1	1169.3	1174.8	1161.7	1160.3
30°	1155.8	1142.0	1147.6	1133.4	1131.1
32.5°	1124.8	1111.9	1116.6	1102.5	1101.1
35°	1077.1	1064.5	1067.7	1053.6	1052.4
37.5°	1022.8	1011.4	1013.2	997.7	996.5
40°	984.3	972.8	973.7	957.3	956.1
42.5°	942.0	930.5	929.6	913.1	912.0
45°	871.6	860.1	856.3	841.0	838.7
47.5°	791.2	779.7	772.7	760.2	758.6
50°	733.0	721.5	715.3	704.7	701.2
52.5°	670.0	658.5	653.3	643.6	640.2
55°	570.9	561.7	557.9	548.5	546.2
57.5°	476.7	470.5	469.4	460.2	459.3
60°	419.3	415.9	415.8	407.6	407.6
62.5°	370.5	367.9	369.8	364.3	363.4
65°	306.6	304.3	307.7	305.4	305.4
67.5°	256.1	256.1	258.2	257.2	257.2
70°	227.9	227.9	229.0	229.0	229.0
72.5°	202.5	201.6	204.6	204.6	203.7
75°	165.6	165.6	165.6	166.8	166.8
77.5°	129.0	129.2	130.1	129.9	129.0
80°	104.5	105.7	105.7	104.5	104.5
82.5°	80.1	81.3	81.3	81.0	80.1
85°	42.3	44.6	47.0	47.0	47.0
87.5°	12.7	17.3	21.9	22.1	21.0
90°	2.4	7.1	15.6	16.8	15.6
92.5°	34.1	124.2	245.1	106.4	77.1
95°	80.4	282.3	861.9	446.1	265.3
97.5°	129.2	323.8	1343.6	1111.9	816.6
100°	165.7	340.6	1493.4	1557.4	1259.3
102.5°	199.3	363.8	1546.2	1895.3	1672.3
105°	260.5	402.5	1554.6	2293.2	2199.3
107.5°	317.2	446.8	1486.7	2541.4	2572.6
110°	361.3	478.7	1426.2	2608.0	2740.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	400.7	510.6	1370.5	2594.7	2817.5
115°	458.6	560.7	1289.3	2495.9	2817.5
117.5°	515.2	611.0	1235.8	2344.9	2709.5
120°	549.8	643.7	1204.1	2236.5	2608.6
122.5°	582.5	674.5	1184.9	2120.4	2495.3
125°	627.8	719.4	1162.1	1961.0	2303.7
127.5°	669.6	759.5	1148.6	1830.9	2132.3
130°	692.7	785.4	1142.9	1750.5	2022.8
132.5°	716.7	808.5	1137.1	1678.0	1928.7
135°	752.7	841.9	1130.8	1583.4	1792.3
137.5°	789.0	873.2	1125.6	1506.6	1676.8
140°	813.9	892.6	1123.6	1457.2	1608.6
142.5°	837.9	911.9	1119.8	1412.6	1545.3
145°	875.1	940.9	1115.2	1355.3	1458.6
147.5°	909.0	967.2	1110.0	1303.4	1382.7
150°	934.0	985.6	1108.0	1275.1	1338.5
152.5°	957.0	1002.1	1107.1	1249.0	1301.1
155°	988.0	1026.7	1105.6	1215.8	1255.7
157.5°	1020.2	1047.2	1105.9	1192.7	1219.0
160°	1038.4	1060.7	1106.8	1178.1	1196.9
162.5°	1052.8	1071.4	1107.8	1166.5	1180.5
165°	1075.6	1086.2	1110.4	1153.8	1159.7
167.5°	1091.2	1098.5	1110.7	1142.9	1145.7
170°	1100.8	1104.4	1111.6	1138.1	1138.1
172.5°	1108.5	1109.2	1111.6	1132.3	1131.3
175°	1116.4	1115.3	1111.6	1126.0	1123.6
177.5°	1119.1	1116.3	1111.4	1120.9	1118.1
180°	1115.2	1115.2	1115.2	1115.2	1115.2

(END OF REPORT)