

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: P563599

Luminaire Tested: **SQ4-PP3-100U-075D-930-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563599  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, G2-2103-172-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PP3-100U-075D-930-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

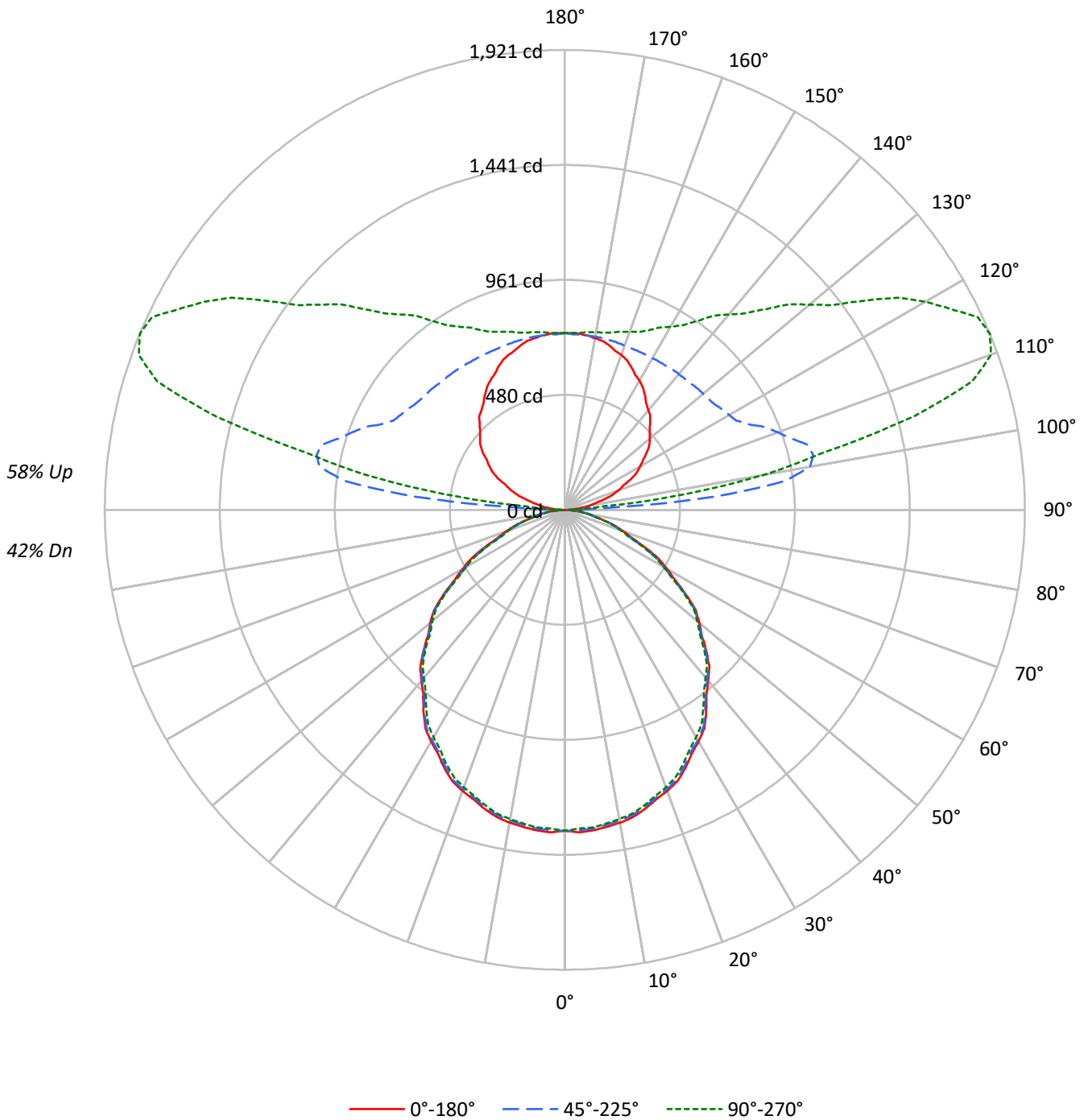
Lumens per Lamp: N/A  
Luminaire Lumens: 8225.0 lumens  
Efficiency: N/A  
Efficacy: 105.4 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 78  
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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	49	49	49	42				
1	96	92	88	85	88	84	81	78	69	67	65	56	54	53	43	42	41	35				
2	88	80	74	69	80	74	68	64	61	57	54	49	46	44	38	36	35	30				
3	80	71	64	58	73	65	59	54	54	49	45	43	40	38	34	32	30	26				
4	73	63	55	49	67	57	51	46	48	43	39	39	35	32	30	28	26	22				
5	67	56	48	42	61	51	44	39	43	37	33	35	31	28	27	25	23	19				
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	25	22	20	17				
7	57	45	37	32	52	42	35	30	35	29	26	29	25	22	23	20	18	15				
8	53	41	33	28	48	38	31	26	32	26	23	26	22	19	21	18	16	13				
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14	12				
10	46	34	27	22	42	32	25	21	27	22	18	22	18	16	18	15	13	11				

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

	0°	45°	90°
0°	8241	8241	8241
5°	8302	8251	8222
10°	8288	8229	8192
15°	8233	8188	8143
20°	8179	8132	8071
25°	8082	8026	7946
30°	7932	7890	7790
35°	7724	7672	7574
40°	7477	7430	7345
45°	7273	7222	7150
50°	7012	6967	6899
55°	6649	6561	6510
60°	6052	5880	5851
65°	5333	5110	5094
70°	4604	4413	4413
75°	3964	3907	3852
80°	3493	3535	3454
85°	2738	2985	2985



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.7	1.5
10°-20°	361.8	4.4
20°-30°	541.9	6.6
30°-40°	635.6	7.7
40°-50°	637.6	7.8
50°-60°	543.9	6.6
60°-70°	354.7	4.3
70°-80°	178.0	2.2
80°-90°	50.8	0.6
90°-100°	345.5	4.2
100°-110°	953.9	11.6
110°-120°	983.8	12.0
120°-130°	790.5	9.6
130°-140°	621.3	7.6
140°-150°	476.5	5.8
150°-160°	342.5	4.2
160°-170°	209.4	2.5
170°-180°	70.6	0.9
0°-30°	1030.4	12.5
0°-40°	1666.0	20.3
0°-60°	2847.5	34.6
0°-90°	3431.0	41.7
90°-120°	2283.2	27.8
90°-150°	4171.5	50.7
90°-180°	4794.0	58.3
0°-180°	8225.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1340	1340	1340	1340	1340	
5°	1345	1332	1336	1332	1332	128
15°	1293	1280	1286	1281	1279	365
25°	1191	1177	1183	1172	1171	548
35°	1029	1018	1022	1010	1009	643
45°	836	830	830	822	822	644
55°	620	618	612	608	607	551
65°	366	360	351	349	350	366
75°	167	167	164	163	162	181
85°	39	42	42	42	42	46
90°	2	5	9	11	12	5
95°	51	187	627	258	168	54
105°	170	262	1050	1602	1509	181
115°	305	368	845	1673	1903	299
125°	418	476	766	1297	1522	372
135°	503	557	745	1050	1184	389
145°	583	624	736	894	962	365
155°	658	680	730	802	828	303
165°	712	721	733	762	767	201
175°	738	739	734	745	742	70
180°	738	738	738	738	738	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1339.9	1339.9	1339.9	1339.9	1339.9
2.5°	1348.4	1337.3	1339.9	1337.9	1332.4
5°	1344.6	1332.0	1336.4	1331.7	1331.7
7.5°	1335.4	1321.7	1326.1	1321.4	1321.1
10°	1327.0	1313.2	1317.6	1312.9	1311.7
12.5°	1314.8	1301.0	1306.3	1300.7	1300.5
15°	1292.9	1280.3	1285.9	1281.1	1278.8
17.5°	1268.3	1254.5	1261.2	1254.6	1253.7
20°	1249.5	1235.7	1242.4	1233.0	1233.0
22.5°	1226.9	1213.2	1220.8	1208.6	1208.6
25°	1190.8	1177.0	1182.6	1172.0	1170.8
27.5°	1147.8	1134.2	1140.0	1128.1	1127.8
30°	1116.8	1104.2	1110.9	1098.0	1096.8
32.5°	1083.0	1071.3	1076.2	1063.2	1062.1
35°	1028.7	1018.4	1021.7	1009.9	1008.7
37.5°	971.6	961.1	964.8	954.7	954.3
40°	931.2	924.4	925.4	917.1	914.8
42.5°	893.7	885.9	886.9	878.6	878.2
45°	836.1	830.4	830.3	822.0	822.0
47.5°	775.1	770.7	769.4	762.6	762.4
50°	732.8	729.3	728.1	722.2	721.0
52.5°	688.6	687.0	683.0	678.1	677.8
55°	620.0	617.7	611.8	608.3	607.1
57.5°	545.6	541.0	534.3	529.2	530.1
60°	492.0	487.5	478.0	475.6	475.6
62.5°	440.4	434.9	425.3	422.1	423.9
65°	366.4	359.5	351.1	348.8	350.0
67.5°	299.2	293.0	284.0	283.9	283.0
70°	256.0	252.6	245.4	245.4	245.4
72.5°	217.5	215.9	210.7	210.7	209.7
75°	166.8	166.8	164.4	163.2	162.1
77.5°	124.9	125.4	124.2	123.0	121.0
80°	98.6	100.9	99.8	98.6	97.5
82.5°	74.2	76.5	76.3	74.2	74.0
85°	38.8	42.2	42.3	42.3	42.3
87.5°	10.8	14.9	16.9	17.2	18.3
90°	2.4	4.7	9.4	10.7	11.8
92.5°	21.2	88.2	157.7	57.6	44.9
95°	50.8	187.0	626.9	257.7	167.6
97.5°	84.1	209.4	928.6	714.9	517.8
100°	108.6	222.9	1040.0	1047.4	851.2
102.5°	132.2	238.2	1061.8	1294.1	1108.0
105°	170.0	262.3	1049.5	1602.2	1508.7
107.5°	210.1	292.3	990.9	1750.8	1784.9
110°	238.5	312.3	945.6	1782.7	1893.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	264.0	335.1	903.1	1757.5	1920.9
115°	304.6	368.1	845.3	1673.3	1903.0
117.5°	340.0	403.2	807.2	1554.8	1816.1
120°	363.6	425.9	792.1	1474.6	1737.7
122.5°	386.3	445.8	779.9	1399.6	1649.0
125°	417.9	475.6	766.2	1296.6	1521.7
127.5°	444.8	502.5	758.1	1209.5	1403.6
130°	462.8	520.5	754.4	1156.2	1332.8
132.5°	479.8	534.7	750.6	1111.4	1271.4
135°	502.9	557.2	744.9	1050.2	1184.1
137.5°	528.9	578.3	742.1	998.7	1113.0
140°	543.0	591.5	740.2	964.4	1064.8
142.5°	559.1	603.9	738.3	933.9	1022.3
145°	583.2	623.6	735.5	894.0	962.1
147.5°	606.3	641.6	732.9	860.4	913.3
150°	623.3	652.2	731.9	840.3	883.0
152.5°	636.5	663.5	731.0	823.2	858.5
155°	657.6	679.5	729.6	802.2	827.5
157.5°	676.9	693.8	729.8	786.9	804.2
160°	688.2	703.2	730.7	778.3	790.9
162.5°	697.7	710.8	731.7	770.6	780.6
165°	711.9	721.1	733.1	761.6	767.3
167.5°	722.7	728.3	734.3	756.0	757.9
170°	728.4	733.0	734.3	753.2	753.2
172.5°	733.1	735.9	734.3	749.4	748.5
175°	737.8	739.0	734.3	744.9	742.5
177.5°	739.7	738.8	734.0	740.6	738.8
180°	737.8	737.8	737.8	737.8	737.8

(END OF REPORT)