

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: P523895

Luminaire Tested: **SQ4-PP3-125U-075D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/24/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P523895  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2103-172-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/24/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PP3-125U-075D-92765-1D-UNV-STD-W-4 (4000K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

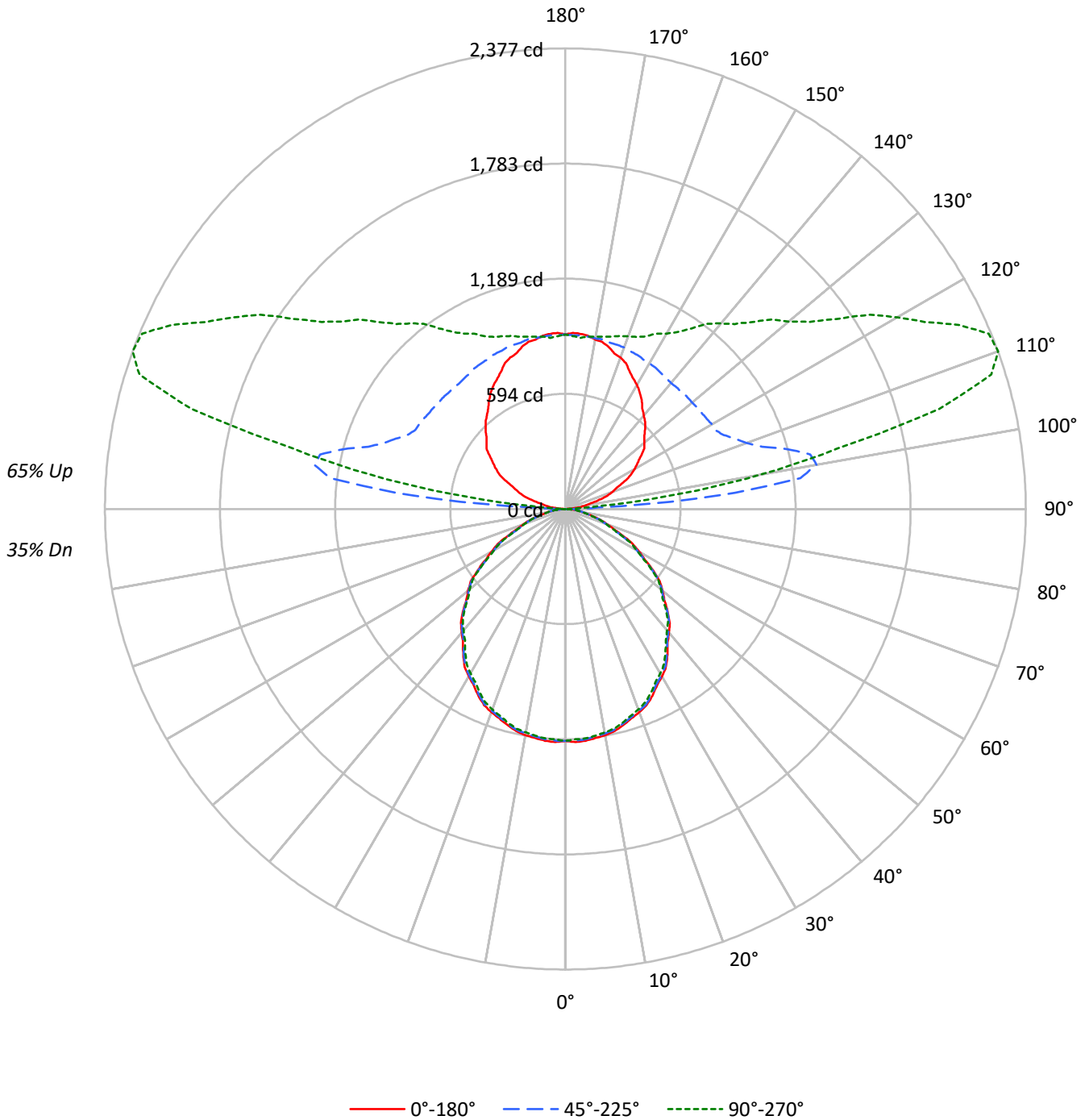
Lumens per Lamp: N/A  
Luminaire Lumens: 8655.3 lumens  
Efficiency: N/A  
Efficacy: 117.9 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 73.4  
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	104	104	104	104	94	94	94	94	75	75	75	58	58	58	43	43	43	35				
1	95	91	87	83	85	82	79	76	66	64	62	51	50	49	38	37	36	30				
2	86	79	73	68	78	72	67	63	58	54	51	45	43	41	34	32	31	25				
3	79	70	63	57	71	63	57	52	51	47	43	40	37	35	30	28	26	22				
4	72	62	54	48	65	56	49	44	45	41	37	36	32	30	27	24	23	19				
5	66	55	47	41	59	50	43	38	41	36	32	32	28	26	24	22	20	16				
6	61	49	41	36	55	45	38	33	37	31	28	29	25	22	22	19	17	14				
7	56	44	36	31	51	40	34	29	33	28	24	26	23	20	20	17	15	13				
8	52	40	32	27	47	37	30	25	30	25	21	24	20	18	18	16	14	11				
9	48	36	29	24	44	33	27	23	28	23	19	22	18	16	17	14	12	10				
10	45	33	26	22	41	31	24	20	25	20	17	20	17	14	16	13	11	9				

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

	0°	45°	90°
0°	11042	11042	11042
5°	11122	11054	11016
10°	11104	11025	10976
15°	11030	10970	10910
20°	10957	10895	10813
25°	10826	10752	10645
30°	10627	10570	10436
35°	10349	10278	10148
40°	10017	9954	9841
45°	9744	9675	9580
50°	9394	9334	9244
55°	8908	8791	8723
60°	8110	7877	7839
65°	7143	6846	6824
70°	6169	5913	5913
75°	5308	5233	5158
80°	4681	4739	4628
85°	3663	4001	4001



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	113.2	1.3
10°-20°	323.1	3.7
20°-30°	484.0	5.6
30°-40°	567.7	6.6
40°-50°	569.5	6.6
50°-60°	485.8	5.6
60°-70°	316.8	3.7
70°-80°	158.9	1.8
80°-90°	44.0	0.5
90°-100°	410.2	4.7
100°-110°	1167.3	13.5
110°-120°	1118.4	12.9
120°-130°	885.2	10.2
130°-140°	710.5	8.2
140°-150°	556.2	6.4
150°-160°	407.0	4.7
160°-170°	252.1	2.9
170°-180°	85.5	1.0
0°-30°	920.3	10.6
0°-40°	1488.0	17.2
0°-60°	2543.2	29.4
0°-90°	3063.0	35.4
90°-120°	2695.9	31.1
90°-150°	4847.7	56.0
90°-180°	5592.0	64.6
0°-180°	8655.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1197	1197	1197	1197	1197	
5°	1201	1190	1194	1189	1189	114
15°	1155	1144	1148	1144	1142	326
25°	1064	1051	1056	1047	1046	489
35°	919	910	912	902	901	574
45°	747	742	742	734	734	575
55°	554	552	546	543	542	492
65°	327	321	314	312	313	327
75°	149	149	147	146	145	162
85°	35	38	38	38	38	41
90°	0	0	0	0	0	3
95°	44	177	794	275	169	51
105°	181	275	1190	2101	1997	192
115°	337	408	902	1911	2244	332
125°	476	528	861	1429	1708	426
135°	582	630	851	1207	1364	449
145°	686	722	858	1044	1138	429
155°	784	802	878	944	982	362
165°	866	869	888	907	921	244
175°	907	902	899	893	887	86
180°	900	900	900	900	900	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1196.8	1196.8	1196.8	1196.8	1196.8
2.5°	1204.3	1194.5	1196.8	1195.0	1190.0
5°	1200.9	1189.7	1193.6	1189.4	1189.4
7.5°	1192.8	1180.5	1184.4	1180.2	1180.0
10°	1185.2	1172.9	1176.8	1172.6	1171.6
12.5°	1174.3	1162.0	1166.8	1161.7	1161.5
15°	1154.8	1143.5	1148.5	1144.3	1142.2
17.5°	1132.8	1120.5	1126.5	1120.6	1119.8
20°	1116.0	1103.7	1109.7	1101.3	1101.3
22.5°	1095.9	1083.5	1090.4	1079.5	1079.5
25°	1063.5	1051.2	1056.2	1046.7	1045.7
27.5°	1025.2	1013.1	1018.2	1007.5	1007.3
30°	997.5	986.2	992.2	980.7	979.6
32.5°	967.3	956.8	961.2	949.6	948.6
35°	918.8	909.6	912.5	902.0	901.0
37.5°	867.8	858.4	861.7	852.7	852.3
40°	831.7	825.6	826.5	819.1	817.1
42.5°	798.2	791.2	792.1	784.7	784.3
45°	746.8	741.7	741.5	734.2	734.2
47.5°	692.2	688.4	687.2	681.1	680.9
50°	654.5	651.4	650.3	645.0	644.0
52.5°	615.1	613.6	610.0	605.6	605.4
55°	553.8	551.7	546.5	543.3	542.3
57.5°	487.3	483.2	477.2	472.6	473.5
60°	439.5	435.4	426.9	424.8	424.8
62.5°	393.3	388.4	379.9	377.0	378.6
65°	327.2	321.1	313.6	311.5	312.6
67.5°	267.3	261.7	253.6	253.6	252.8
70°	228.7	225.6	219.2	219.2	219.2
72.5°	194.2	192.8	188.2	188.1	187.3
75°	148.9	148.9	146.8	145.8	144.7
77.5°	111.6	112.0	111.0	109.9	108.0
80°	88.1	90.2	89.2	88.1	87.1
82.5°	66.3	68.3	68.2	66.3	66.1
85°	34.6	37.7	37.8	37.8	37.8
87.5°	9.2	12.5	13.4	13.4	14.3
90°	0.0	0.0	0.0	0.0	0.0
92.5°	13.7	72.6	168.4	49.0	37.0
95°	44.5	176.7	794.2	274.9	169.4
97.5°	81.8	207.0	1223.1	875.2	599.7
100°	107.8	225.0	1316.2	1333.2	1026.9
102.5°	136.6	244.4	1295.7	1706.5	1439.1
105°	181.4	275.1	1189.5	2101.2	1997.4
107.5°	227.0	311.0	1065.6	2212.4	2304.8
110°	258.4	337.1	994.4	2169.9	2377.4

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	288.6	363.2	946.5	2069.2	2365.0
115°	337.2	407.5	902.0	1910.8	2243.9
117.5°	380.0	445.9	875.6	1737.7	2090.5
120°	414.2	469.4	872.9	1638.8	1976.9
122.5°	441.6	496.8	866.1	1552.0	1866.0
125°	475.8	527.7	860.9	1428.7	1708.1
127.5°	513.1	561.7	858.2	1355.0	1585.3
130°	532.3	580.8	854.1	1303.6	1504.5
132.5°	552.8	600.0	854.1	1263.6	1448.3
135°	581.9	630.5	850.7	1206.8	1364.1
137.5°	609.3	656.5	850.3	1158.7	1294.6
140°	629.9	678.4	848.9	1118.9	1249.4
142.5°	653.1	693.6	853.0	1087.1	1204.3
145°	686.3	721.5	857.5	1044.5	1138.2
147.5°	714.8	748.9	865.0	1001.4	1082.4
150°	739.4	762.8	867.8	987.2	1044.1
152.5°	758.6	783.3	870.5	967.9	1020.8
155°	783.9	802.3	878.0	943.9	982.4
157.5°	815.4	826.4	879.7	933.1	960.5
160°	831.8	840.2	886.6	924.8	948.2
162.5°	841.4	851.1	888.0	917.8	935.9
165°	866.1	869.4	888.3	907.4	920.8
167.5°	882.8	879.8	896.2	904.9	910.2
170°	888.3	886.6	893.4	895.3	902.0
172.5°	900.6	894.9	897.5	892.5	897.9
175°	907.1	902.1	898.6	893.3	886.6
177.5°	909.9	901.8	897.5	892.1	893.4
180°	900.3	900.3	900.3	900.3	900.3

(END OF REPORT)