

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: P563679

Luminaire Tested: **SQ4-PP3-125U-050D-940-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563679  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-PP3-125U-050D-940-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

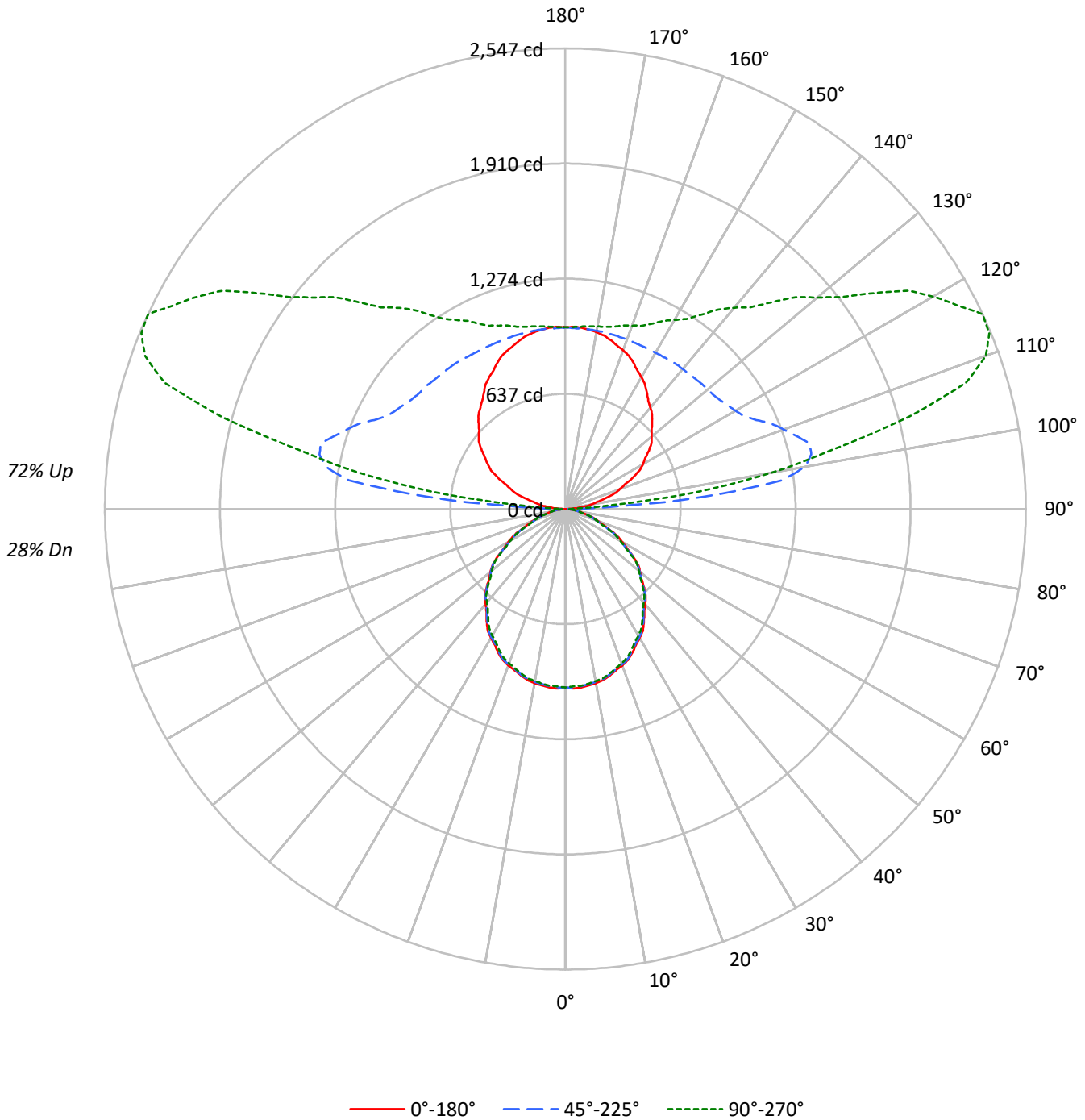
Lumens per Lamp: N/A  
Luminaire Lumens: 9012.9 lumens  
Efficiency: N/A  
Efficacy: 121.5 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 74.2  
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	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36	28
1	93	89	85	82	83	80	77	74	62	60	58	47	45	44	32	31	31	24
2	85	78	72	67	76	70	65	61	55	51	48	41	39	37	28	27	26	20
3	77	68	61	56	69	61	55	51	48	44	41	36	34	31	25	23	22	17
4	71	60	53	47	63	54	48	43	43	38	35	32	29	27	22	21	19	15
5	65	54	46	40	58	48	42	37	38	33	30	29	26	23	20	18	17	13
6	60	48	40	35	53	43	37	32	34	29	26	26	23	20	18	16	15	11
7	55	43	36	30	49	39	32	28	31	26	23	24	20	18	17	15	13	10
8	51	39	32	26	45	35	29	24	28	23	20	22	18	16	15	13	12	9
9	47	35	28	23	42	32	26	22	26	21	18	20	16	14	14	12	10	8
10	44	32	25	21	39	29	23	19	24	19	16	18	15	13	13	11	9	7

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

	0°	45°	90°
0°	6075	6075	6075
5°	6119	6082	6061
10°	6109	6066	6038
15°	6068	6035	6002
20°	6028	5994	5949
25°	5957	5915	5857
30°	5847	5815	5742
35°	5693	5654	5583
40°	5511	5477	5414
45°	5361	5324	5270
50°	5168	5136	5086
55°	4901	4836	4799
60°	4462	4334	4313
65°	3931	3767	3753
70°	3394	3253	3253
75°	2921	2880	2838
80°	2575	2607	2543
85°	2018	2202	2202



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.4	1.0
10°-20°	266.7	3.0
20°-30°	399.4	4.4
30°-40°	468.5	5.2
40°-50°	470.0	5.2
50°-60°	400.9	4.4
60°-70°	261.5	2.9
70°-80°	131.2	1.5
80°-90°	38.7	0.4
90°-100°	469.8	5.2
100°-110°	1265.4	14.0
110°-120°	1328.0	14.7
120°-130°	1077.7	12.0
130°-140°	845.2	9.4
140°-150°	648.9	7.2
150°-160°	466.6	5.2
160°-170°	285.0	3.2
170°-180°	96.1	1.1
0°-30°	759.5	8.4
0°-40°	1227.9	13.6
0°-60°	2098.8	23.3
0°-90°	2530.1	28.1
90°-120°	3063.3	34.0
90°-150°	5635.0	62.5
90°-180°	6483.0	71.9
0°-180°	9012.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	988	988	988	988	988	
5°	991	982	985	982	982	94
15°	953	944	948	944	943	269
25°	878	868	872	864	863	404
35°	758	751	753	744	744	474
45°	616	612	612	606	606	475
55°	457	455	451	448	448	406
65°	270	265	259	257	258	270
75°	123	123	121	120	119	133
85°	29	31	31	31	31	34
90°	3	8	15	17	17	6
95°	72	256	770	394	272	75
105°	234	364	1400	2094	1965	246
115°	413	506	1165	2252	2547	407
125°	564	648	1046	1769	2081	504
135°	679	758	1017	1427	1616	524
145°	786	847	1004	1220	1310	493
155°	892	924	995	1094	1130	410
165°	967	978	999	1039	1044	273
175°	1006	1004	1000	1014	1012	96
180°	1004	1004	1004	1004	1004	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	987.6	987.6	987.6	987.6	987.6
2.5°	993.8	985.7	987.6	986.1	982.1
5°	991.1	981.8	985.0	981.6	981.6
7.5°	984.3	974.2	977.4	973.9	973.8
10°	978.1	967.9	971.2	967.7	966.8
12.5°	969.1	958.9	962.9	958.7	958.5
15°	953.0	943.7	947.8	944.3	942.6
17.5°	934.8	924.7	929.6	924.8	924.1
20°	921.0	910.8	915.8	908.9	908.9
22.5°	904.3	894.2	899.8	890.8	890.8
25°	877.7	867.5	871.6	863.8	863.0
27.5°	846.0	836.0	840.3	831.5	831.3
30°	823.2	813.8	818.8	809.3	808.4
32.5°	798.2	789.6	793.2	783.7	782.8
35°	758.2	750.6	753.0	744.4	743.5
37.5°	716.2	708.4	711.2	703.7	703.4
40°	686.4	681.3	682.1	676.0	674.3
42.5°	658.7	652.9	653.7	647.6	647.3
45°	616.3	612.1	612.0	605.9	605.9
47.5°	571.3	568.1	567.1	562.1	561.9
50°	540.1	537.6	536.7	532.3	531.5
52.5°	507.6	506.4	503.4	499.8	499.6
55°	457.0	455.3	451.0	448.3	447.5
57.5°	402.1	398.8	393.8	390.0	390.7
60°	362.7	359.3	352.3	350.6	350.6
62.5°	324.6	320.5	313.5	311.1	312.5
65°	270.1	265.0	258.8	257.1	257.9
67.5°	220.5	216.0	209.3	209.3	208.6
70°	188.7	186.2	180.9	180.9	180.9
72.5°	160.3	159.1	155.3	155.3	154.6
75°	122.9	122.9	121.2	120.3	119.4
77.5°	92.1	92.4	91.6	90.7	89.2
80°	72.7	74.4	73.6	72.7	71.8
82.5°	54.7	56.4	56.3	54.7	54.5
85°	28.6	31.1	31.2	31.2	31.2
87.5°	8.1	11.8	14.1	14.4	15.1
90°	2.6	7.6	15.4	16.6	16.6
92.5°	31.2	110.3	218.0	104.9	72.9
95°	71.6	255.5	770.1	393.8	272.5
97.5°	114.4	292.5	1207.9	1009.1	760.9
100°	147.1	307.2	1347.0	1409.4	1169.2
102.5°	178.8	327.9	1393.1	1709.2	1512.1
105°	234.1	364.2	1399.5	2093.7	1964.9
107.5°	286.3	402.4	1339.9	2291.4	2324.6
110°	321.1	431.2	1285.6	2352.7	2474.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	357.9	460.0	1233.4	2339.1	2538.5
115°	413.2	505.8	1165.4	2251.8	2547.0
117.5°	463.6	550.4	1112.7	2112.3	2441.0
120°	496.3	580.2	1086.1	2012.2	2350.0
122.5°	525.0	607.8	1066.6	1909.9	2246.6
125°	564.1	648.0	1046.4	1768.6	2081.3
127.5°	601.8	684.3	1033.6	1644.0	1923.2
130°	624.3	706.8	1028.5	1572.6	1817.8
132.5°	646.8	728.3	1023.4	1509.8	1734.9
135°	679.3	758.1	1017.0	1426.8	1615.7
137.5°	710.2	785.8	1013.7	1356.5	1511.6
140°	731.7	804.3	1010.6	1313.1	1453.2
142.5°	754.2	821.8	1008.6	1272.7	1390.8
145°	785.5	846.7	1004.2	1219.9	1309.9
147.5°	819.2	872.5	999.9	1175.4	1246.2
150°	841.7	888.0	997.8	1147.5	1206.3
152.5°	862.2	902.5	996.8	1124.8	1172.6
155°	891.6	924.2	995.2	1094.5	1129.6
157.5°	917.5	942.7	995.5	1073.3	1096.8
160°	933.8	955.1	996.5	1060.9	1078.4
162.5°	948.2	965.4	997.6	1050.5	1063.0
165°	967.1	978.4	999.1	1038.9	1043.9
167.5°	982.5	989.0	1000.4	1029.8	1031.8
170°	992.7	995.2	1000.4	1024.7	1024.7
172.5°	998.8	999.3	1001.4	1019.6	1019.6
175°	1005.5	1004.2	1000.4	1014.4	1011.9
177.5°	1008.3	1006.3	1001.1	1009.3	1007.3
180°	1004.2	1004.2	1004.2	1004.2	1004.2

(END OF REPORT)