

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: P564374

Luminaire Tested: **SQ4-PR1-125U-075D-940-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564374  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-PR1-125U-075D-940-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

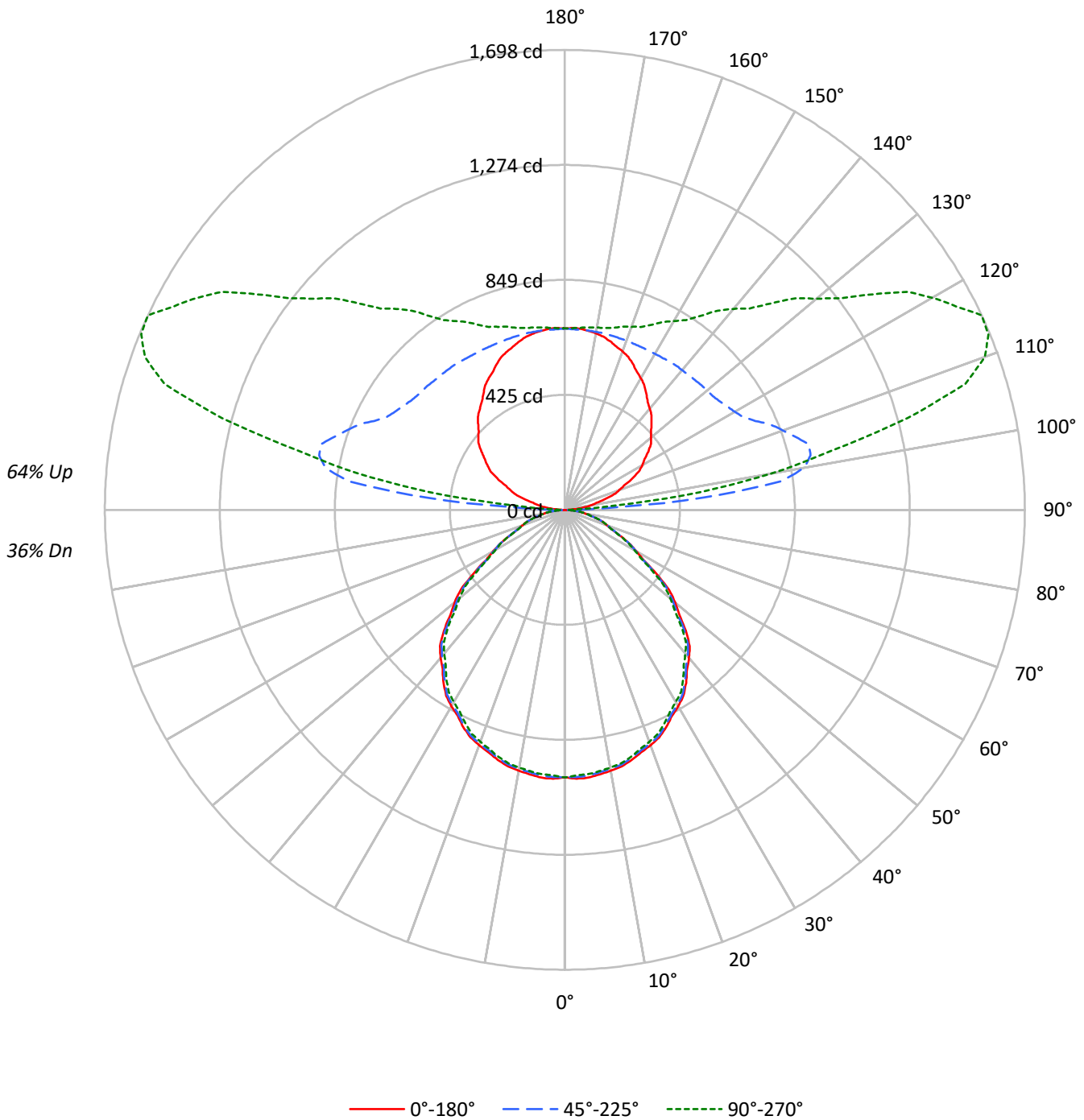
Lumens per Lamp: N/A  
Luminaire Lumens: 6792.4 lumens  
Efficiency: N/A  
Efficacy: 121.9 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 55.7  
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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	36
1	95	91	87	84	86	82	79	76	67	64	62	52	51	49	39	38	37	31
2	87	79	74	69	78	72	67	63	59	55	52	46	44	42	34	33	32	26
3	79	70	63	57	71	64	58	53	52	48	44	41	38	35	31	29	27	23
4	72	62	54	49	65	56	50	45	46	41	38	36	33	30	28	25	24	19
5	66	55	47	42	60	50	44	38	41	36	32	33	29	26	25	22	21	17
6	61	49	42	36	55	45	38	33	37	32	28	30	26	23	23	20	18	15
7	56	45	37	31	51	41	34	29	34	29	25	27	23	20	21	18	16	13
8	52	40	33	28	47	37	30	26	31	26	22	25	21	18	19	16	14	12
9	49	37	30	25	44	34	27	23	28	23	20	23	19	16	17	15	13	11
10	45	34	27	22	41	31	25	21	26	21	18	21	17	15	16	14	12	10

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

	0°	45°	90°
0°	9113	9113	9113
5°	9195	9123	9076
10°	9165	9102	9054
15°	9125	9068	9020
20°	9079	9021	8954
25°	9015	8954	8850
30°	8918	8854	8727
35°	8786	8710	8585
40°	8586	8493	8340
45°	8236	8092	7925
50°	7619	7437	7290
55°	6650	6500	6363
60°	5604	5556	5447
65°	4846	4866	4829
70°	4451	4475	4475
75°	4274	4274	4306
80°	4022	4070	4022
85°	3239	3599	3599



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.4	1.4
10°-20°	267.2	3.9
20°-30°	403.1	5.9
30°-40°	480.2	7.1
40°-50°	473.5	7.0
50°-60°	361.8	5.3
60°-70°	223.9	3.3
70°-80°	127.2	1.9
80°-90°	40.3	0.6
90°-100°	313.2	4.6
100°-110°	843.6	12.4
110°-120°	885.4	13.0
120°-130°	718.5	10.6
130°-140°	563.5	8.3
140°-150°	432.6	6.4
150°-160°	311.0	4.6
160°-170°	190.0	2.8
170°-180°	64.1	0.9
0°-30°	763.7	11.2
0°-40°	1243.9	18.3
0°-60°	2079.2	30.6
0°-90°	2470.6	36.4
90°-120°	2042.2	30.1
90°-150°	3756.7	55.3
90°-180°	4322.0	63.6
0°-180°	6792.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	988	988	988	988	988	
5°	993	982	985	982	980	94
15°	955	945	949	946	944	270
25°	886	875	880	870	869	408
35°	780	771	773	763	762	487
45°	631	623	620	609	607	484
55°	413	407	404	397	396	370
65°	222	220	223	221	221	225
75°	120	120	120	121	121	127
85°	31	32	34	34	34	36
90°	2	5	10	11	11	5
95°	48	170	513	262	182	50
105°	156	243	933	1396	1310	164
115°	276	337	777	1501	1698	271
125°	376	432	698	1179	1388	336
135°	453	505	678	951	1077	350
145°	524	564	670	813	873	328
155°	594	616	664	730	753	274
165°	645	652	666	693	696	182
175°	670	670	667	676	675	64
180°	670	670	670	670	670	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	987.7	987.7	987.7	987.7	987.7
2.5°	993.8	985.1	987.7	985.5	980.9
5°	992.8	982.0	985.1	981.7	980.0
7.5°	985.1	974.5	977.6	974.2	973.2
10°	978.3	968.3	971.5	968.1	966.4
12.5°	970.8	960.2	964.0	959.9	958.2
15°	955.3	945.4	949.4	945.9	944.3
17.5°	938.3	927.7	931.7	927.7	925.6
20°	924.7	914.7	918.8	912.8	912.0
22.5°	909.7	899.8	903.8	895.8	895.6
25°	885.6	874.8	879.6	870.2	869.4
27.5°	856.8	846.8	850.9	841.3	840.3
30°	837.1	827.1	831.1	820.9	819.2
32.5°	814.6	805.3	808.7	798.4	797.4
35°	780.1	770.9	773.3	763.1	762.2
37.5°	740.8	732.5	733.8	722.6	721.7
40°	712.9	704.6	705.2	693.3	692.5
42.5°	682.3	673.9	673.2	661.3	660.5
45°	631.2	622.9	620.2	609.1	607.4
47.5°	573.0	564.7	559.6	550.5	549.4
50°	530.8	522.5	518.1	510.4	507.9
52.5°	485.2	476.9	473.2	466.1	463.6
55°	413.4	406.8	404.1	397.2	395.6
57.5°	345.2	340.7	339.9	333.3	332.6
60°	303.7	301.2	301.1	295.2	295.2
62.5°	268.3	266.5	267.8	263.9	263.2
65°	222.0	220.4	222.9	221.2	221.2
67.5°	185.5	185.5	187.0	186.3	186.3
70°	165.0	165.0	165.9	165.9	165.9
72.5°	146.7	146.0	148.2	148.2	147.5
75°	119.9	119.9	119.9	120.8	120.8
77.5°	93.4	93.6	94.3	94.1	93.4
80°	75.7	76.5	76.6	75.7	75.7
82.5°	58.0	58.8	58.9	58.7	58.0
85°	30.6	32.3	34.0	34.0	34.0
87.5°	9.2	12.5	15.7	15.8	15.1
90°	1.7	5.0	10.2	11.1	11.1
92.5°	20.8	73.5	145.3	70.0	48.6
95°	47.8	170.3	513.4	262.5	181.7
97.5°	76.2	195.0	805.2	672.7	507.3
100°	98.1	204.8	898.0	939.6	779.5
102.5°	119.2	218.6	928.7	1139.5	1008.0
105°	156.1	242.8	933.0	1395.8	1309.9
107.5°	190.9	268.2	893.3	1527.6	1549.8
110°	214.1	287.4	857.1	1568.5	1649.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	238.6	306.7	822.3	1559.4	1692.4
115°	275.5	337.2	776.9	1501.2	1698.0
117.5°	309.1	366.9	741.8	1408.2	1627.4
120°	330.9	386.8	724.1	1341.5	1566.6
122.5°	350.0	405.2	711.1	1273.3	1497.7
125°	376.1	432.0	697.6	1179.1	1387.6
127.5°	401.2	456.2	689.1	1096.0	1282.1
130°	416.2	471.2	685.7	1048.4	1211.9
132.5°	431.2	485.6	682.3	1006.5	1156.6
135°	452.9	505.4	678.0	951.2	1077.1
137.5°	473.5	523.9	675.8	904.3	1007.7
140°	487.8	536.2	673.7	875.4	968.8
142.5°	502.8	547.9	672.4	848.5	927.2
145°	523.6	564.5	669.5	813.3	873.3
147.5°	546.2	581.7	666.6	783.6	830.8
150°	561.2	592.0	665.2	765.0	804.2
152.5°	574.8	601.7	664.5	749.8	781.7
155°	594.4	616.1	663.5	729.7	753.0
157.5°	611.6	628.5	663.7	715.5	731.2
160°	622.6	636.7	664.4	707.3	718.9
162.5°	632.1	643.6	665.0	700.4	708.7
165°	644.7	652.2	666.1	692.6	695.9
167.5°	655.0	659.3	666.9	686.6	687.9
170°	661.8	663.5	666.9	683.1	683.1
172.5°	665.9	666.2	667.6	679.7	679.7
175°	670.3	669.5	666.9	676.3	674.6
177.5°	672.2	670.9	667.4	672.9	671.5
180°	669.5	669.5	669.5	669.5	669.5

(END OF REPORT)