

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: P564334

Luminaire Tested: **SQ4-PR1-125U-050D-835-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564334  
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-050D-835-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

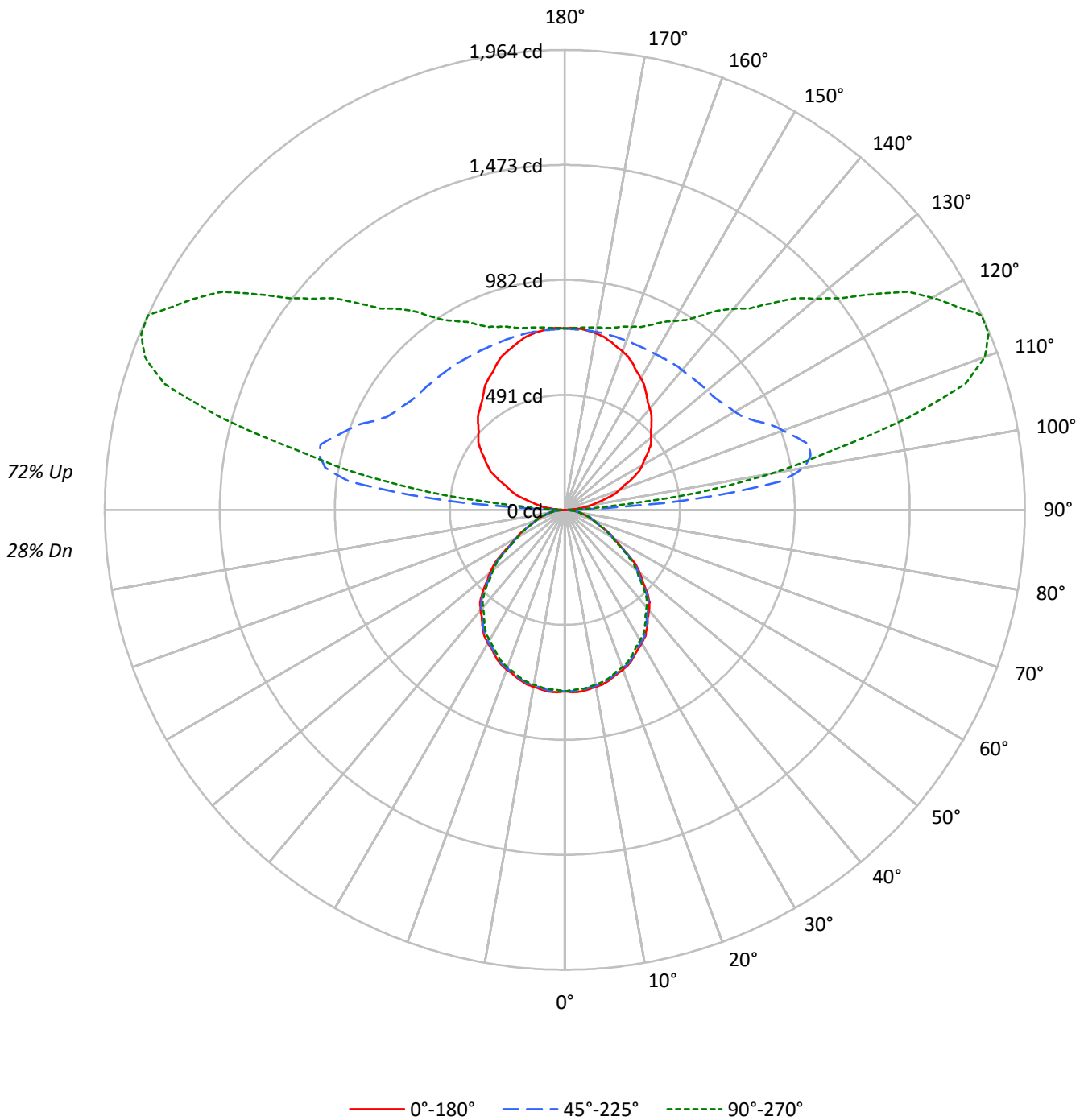
Lumens per Lamp: N/A  
Luminaire Lumens: 6939.0 lumens  
Efficiency: N/A  
Efficacy: 144.9 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 47.9  
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	49	41	39	37	28	27	26	20
3	77	68	61	56	69	61	56	51	48	44	41	36	34	31	25	24	22	17
4	71	61	53	47	63	54	48	43	43	39	35	32	29	27	23	21	19	15
5	65	54	46	40	58	48	42	37	38	34	30	29	26	23	20	18	17	13
6	60	48	40	35	53	43	37	32	35	30	26	26	23	20	18	16	15	12
7	55	43	36	30	49	39	33	28	31	26	23	24	20	18	17	15	13	10
8	51	39	32	27	46	35	29	25	28	24	20	22	18	16	15	13	12	9
9	47	36	29	24	42	32	26	22	26	21	18	20	17	14	14	12	11	8
10	44	33	26	21	40	30	23	19	24	19	16	18	15	13	13	11	10	8

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

	0°	45°	90°
0°	7152	7152	7152
5°	7217	7161	7123
10°	7193	7144	7106
15°	7162	7117	7079
20°	7126	7080	7027
25°	7075	7028	6947
30°	6999	6949	6850
35°	6895	6836	6738
40°	6739	6666	6546
45°	6464	6350	6220
50°	5980	5836	5721
55°	5220	5101	4995
60°	4399	4362	4275
65°	3805	3818	3790
70°	3493	3512	3512
75°	3354	3354	3379
80°	3156	3193	3156
85°	2541	2826	2826



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.3	1.1
10°-20°	209.7	3.0
20°-30°	316.3	4.6
30°-40°	376.9	5.4
40°-50°	371.6	5.4
50°-60°	284.0	4.1
60°-70°	175.8	2.5
70°-80°	99.8	1.4
80°-90°	32.2	0.5
90°-100°	362.3	5.2
100°-110°	975.9	14.1
110°-120°	1024.2	14.8
120°-130°	831.1	12.0
130°-140°	651.8	9.4
140°-150°	500.4	7.2
150°-160°	359.8	5.2
160°-170°	219.8	3.2
170°-180°	74.1	1.1
0°-30°	599.4	8.6
0°-40°	976.3	14.1
0°-60°	1631.9	23.5
0°-90°	1939.6	28.0
90°-120°	2362.3	34.0
90°-150°	4345.6	62.6
90°-180°	4999.0	72.0
0°-180°	6939.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	775	775	775	775	775	
5°	779	771	773	770	769	74
15°	750	742	745	742	741	212
25°	695	687	690	683	682	320
35°	612	605	607	599	598	382
45°	495	489	487	478	477	380
55°	324	319	317	312	310	291
65°	174	173	175	174	174	177
75°	94	94	94	95	95	99
85°	24	25	27	27	27	28
90°	2	6	12	13	13	5
95°	55	197	594	304	210	58
105°	180	281	1079	1615	1515	190
115°	319	390	899	1736	1964	314
125°	435	500	807	1364	1605	389
135°	524	585	784	1100	1246	404
145°	606	653	774	941	1010	380
155°	688	713	768	844	871	317
165°	746	754	770	801	805	210
175°	775	774	772	782	780	74
180°	774	774	774	774	774	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	775.2	775.2	775.2	775.2	775.2
2.5°	780.0	773.2	775.2	773.5	769.8
5°	779.2	770.7	773.2	770.5	769.1
7.5°	773.2	764.8	767.3	764.6	763.8
10°	767.8	760.0	762.5	759.8	758.5
12.5°	761.9	753.6	756.6	753.4	752.1
15°	749.8	742.0	745.1	742.4	741.1
17.5°	736.4	728.1	731.2	728.1	726.4
20°	725.8	717.9	721.1	716.4	715.7
22.5°	714.0	706.2	709.3	703.0	702.9
25°	695.0	686.6	690.4	683.0	682.4
27.5°	672.5	664.6	667.8	660.3	659.5
30°	657.0	649.1	652.3	644.3	643.0
32.5°	639.4	632.0	634.7	626.7	625.9
35°	612.2	605.1	606.9	598.9	598.2
37.5°	581.4	574.9	575.9	567.1	566.4
40°	559.5	553.0	553.5	544.1	543.5
42.5°	535.5	528.9	528.4	519.0	518.4
45°	495.4	488.9	486.7	478.0	476.7
47.5°	449.7	443.2	439.2	432.1	431.2
50°	416.6	410.1	406.6	400.6	398.6
52.5°	380.8	374.3	371.4	365.8	363.9
55°	324.5	319.3	317.1	311.8	310.5
57.5°	270.9	267.4	266.8	261.6	261.1
60°	238.4	236.4	236.4	231.7	231.7
62.5°	210.6	209.1	210.2	207.1	206.6
65°	174.3	173.0	174.9	173.6	173.6
67.5°	145.6	145.6	146.8	146.2	146.2
70°	129.5	129.5	130.2	130.2	130.2
72.5°	115.1	114.6	116.3	116.3	115.8
75°	94.1	94.1	94.1	94.8	94.8
77.5°	73.3	73.4	74.0	73.8	73.3
80°	59.4	60.1	60.1	59.4	59.4
82.5°	45.5	46.2	46.2	46.1	45.5
85°	24.0	25.3	26.7	26.7	26.7
87.5°	7.3	10.2	13.1	13.2	12.7
90°	2.0	5.8	11.8	12.8	12.8
92.5°	24.1	85.0	168.1	80.9	56.2
95°	55.2	197.0	593.9	303.7	210.1
97.5°	88.2	225.6	931.5	778.2	586.8
100°	113.4	236.9	1038.8	1086.9	901.7
102.5°	137.9	252.9	1074.3	1318.1	1166.1
105°	180.5	280.9	1079.3	1614.6	1515.3
107.5°	220.8	310.3	1033.3	1767.0	1792.7
110°	247.6	332.5	991.5	1814.4	1907.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	276.0	354.7	951.2	1803.9	1957.7
115°	318.6	390.0	898.7	1736.5	1964.2
117.5°	357.5	424.5	858.1	1629.0	1882.5
120°	382.8	447.4	837.6	1551.8	1812.2
122.5°	404.9	468.7	822.6	1472.9	1732.5
125°	435.1	499.7	807.0	1363.9	1605.1
127.5°	464.1	527.7	797.1	1267.8	1483.1
130°	481.4	545.1	793.2	1212.8	1401.8
132.5°	498.8	561.7	789.2	1164.3	1337.9
135°	523.8	584.6	784.3	1100.3	1246.0
137.5°	547.7	606.0	781.7	1046.1	1165.7
140°	564.3	620.2	779.4	1012.7	1120.7
142.5°	581.7	633.7	777.8	981.5	1072.5
145°	605.7	653.0	774.4	940.7	1010.2
147.5°	631.8	672.9	771.1	906.5	961.1
150°	649.1	684.8	769.5	885.0	930.3
152.5°	664.9	696.0	768.7	867.4	904.2
155°	687.6	712.7	767.5	844.1	871.1
157.5°	707.5	727.0	767.7	827.7	845.8
160°	720.2	736.6	768.5	818.1	831.6
162.5°	731.2	744.5	769.3	810.2	819.8
165°	745.8	754.5	770.5	801.1	805.0
167.5°	757.6	762.7	771.5	794.2	795.7
170°	765.5	767.5	771.5	790.2	790.2
172.5°	770.3	770.7	772.2	786.3	786.3
175°	775.4	774.4	771.5	782.3	780.3
177.5°	777.6	776.0	772.1	778.3	776.8
180°	774.4	774.4	774.4	774.4	774.4

(END OF REPORT)