

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: P562990

Luminaire Tested: **SQ4-PC3-125U-050D-835-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562990  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2106-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PC3-125U-050D-835-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

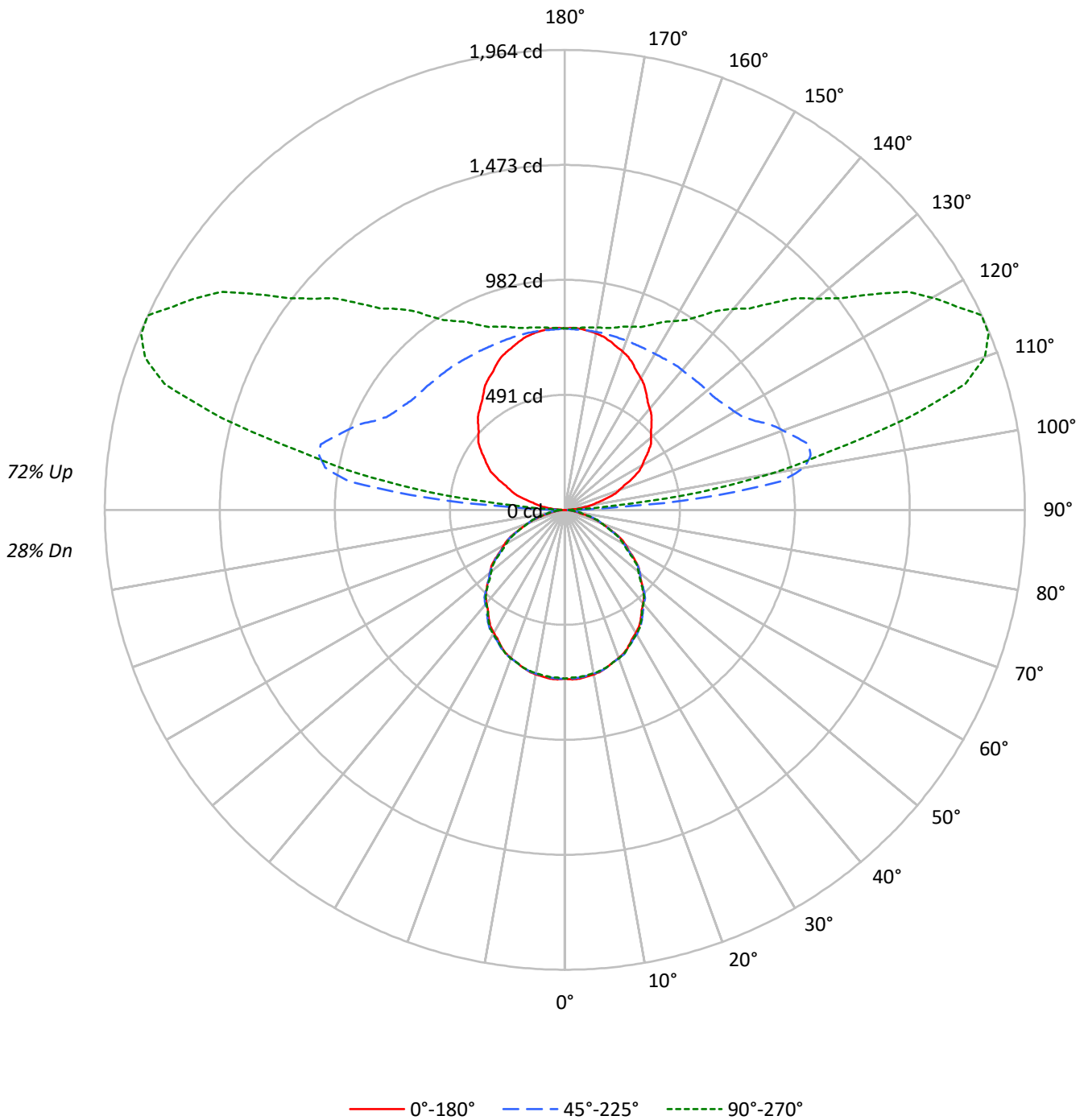
Lumens per Lamp: N/A  
Luminaire Lumens: 6969.1 lumens  
Efficiency: N/A  
Efficacy: 145.5 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

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	76	74	62	60	58	47	45	44	32	31	31	24
2	85	77	72	67	75	70	65	60	55	51	48	41	39	37	28	27	26	20
3	77	68	61	55	69	61	55	50	48	44	40	36	33	31	25	23	22	17
4	70	60	52	47	63	54	48	43	43	38	34	32	29	26	22	20	19	14
5	65	53	46	40	57	48	41	36	38	33	29	29	25	23	20	18	16	13
6	59	48	40	34	53	43	36	31	34	29	26	26	22	20	18	16	14	11
7	55	43	35	30	49	39	32	27	31	26	22	23	20	17	16	14	13	10
8	51	39	31	26	45	35	29	24	28	23	20	21	18	15	15	13	11	9
9	47	35	28	23	42	32	26	21	26	21	17	20	16	14	14	12	10	8
10	44	32	25	21	39	29	23	19	23	19	16	18	15	12	13	11	9	7

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

	0°	45°	90°
0°	6653	6653	6653
5°	6703	6660	6635
10°	6686	6655	6637
15°	6652	6652	6645
20°	6608	6627	6627
25°	6546	6593	6572
30°	6466	6544	6516
35°	6369	6467	6422
40°	6264	6353	6288
45°	6151	6194	6099
50°	5990	5990	5894
55°	5799	5725	5638
60°	5519	5408	5322
65°	5102	4999	4956
70°	4467	4502	4483
75°	3593	3975	4000
80°	2556	3369	3406
85°	1556	2826	2826



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.2	1.0
10°-20°	195.8	2.8
20°-30°	296.6	4.3
30°-40°	355.6	5.1
40°-50°	362.5	5.2
50°-60°	316.5	4.5
60°-70°	226.6	3.3
70°-80°	116.7	1.7
80°-90°	31.3	0.4
90°-100°	362.3	5.2
100°-110°	975.9	14.0
110°-120°	1024.2	14.7
120°-130°	831.1	11.9
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°	560.6	8.0
0°-40°	916.2	13.1
0°-60°	1595.2	22.9
0°-90°	1969.8	28.3
90°-120°	2362.3	33.9
90°-150°	4345.6	62.4
90°-180°	4999.0	71.7
0°-180°	6969.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	721	721	721	721	721	
5°	724	717	719	717	716	69
15°	696	690	696	696	696	196
25°	643	638	648	646	646	296
35°	566	564	574	570	570	354
45°	471	470	475	469	467	363
55°	360	356	356	350	350	321
65°	234	228	229	227	227	231
75°	101	105	112	112	112	109
85°	15	22	27	27	27	20
90°	2	6	12	13	13	4
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°	721.1	721.1	721.1	721.1	721.1
2.5°	725.4	719.1	721.1	719.4	716.8
5°	723.7	716.6	719.1	717.1	716.4
7.5°	718.5	711.4	714.7	713.3	712.7
10°	713.7	706.6	710.4	709.0	708.4
12.5°	707.3	700.7	705.1	703.7	703.6
15°	696.4	690.5	696.4	696.4	695.7
17.5°	682.6	677.3	683.6	683.9	683.6
20°	673.0	667.1	675.0	674.4	675.0
22.5°	661.3	656.4	664.9	663.1	663.8
25°	643.0	638.4	647.6	645.6	645.6
27.5°	621.3	618.1	628.1	626.0	626.0
30°	606.9	603.6	614.3	611.6	611.6
32.5°	590.9	588.7	598.8	595.6	595.6
35°	565.5	564.2	574.2	570.2	570.2
37.5°	539.3	538.2	547.2	542.4	540.8
40°	520.1	519.5	527.5	522.1	522.1
42.5°	500.9	500.2	507.2	500.7	500.7
45°	471.4	470.1	474.7	468.7	467.4
47.5°	439.2	437.9	440.8	434.2	433.6
50°	417.3	416.0	417.3	411.3	410.6
52.5°	394.9	392.5	392.7	386.7	386.6
55°	360.5	356.0	355.9	350.5	350.5
57.5°	324.2	318.2	318.7	314.2	313.5
60°	299.1	292.6	293.1	289.1	288.4
62.5°	274.5	267.0	268.5	264.0	263.9
65°	233.7	228.5	229.0	227.0	227.0
67.5°	194.4	189.6	193.1	191.5	191.4
70°	165.6	162.3	166.9	166.9	166.2
72.5°	138.9	138.7	144.5	144.5	144.9
75°	100.8	105.4	111.5	112.2	112.2
77.5°	67.3	75.4	82.1	82.4	82.3
80°	48.1	57.2	63.4	64.7	64.1
82.5°	32.6	42.2	47.4	48.7	48.1
85°	14.7	22.5	26.7	27.4	26.7
87.5°	4.7	10.1	13.1	13.2	12.2
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)