

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: P562994

Luminaire Tested: **SQ4-PC3-125U-050D-840-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562994  
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-840-1D-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: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

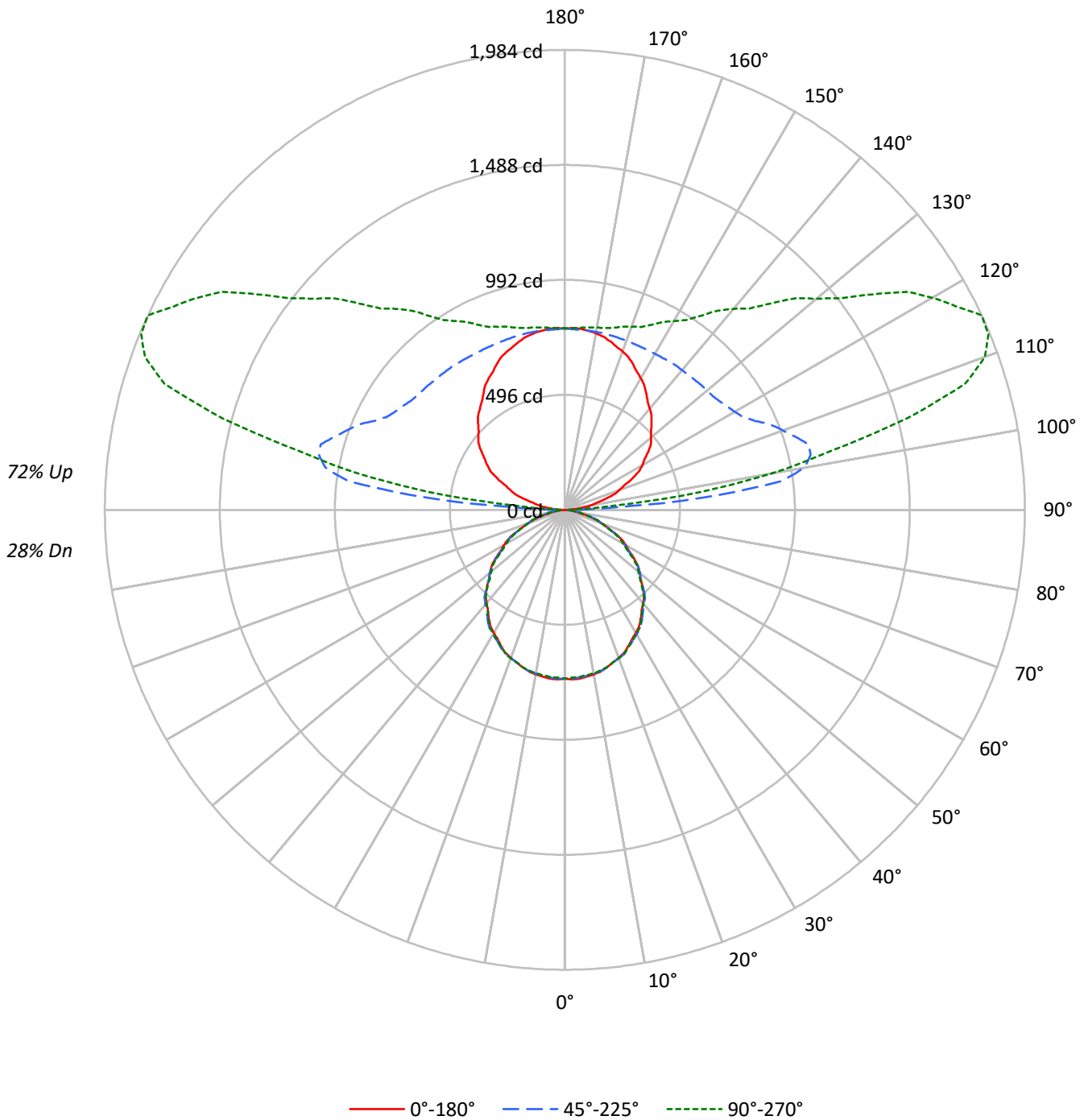
Lumens per Lamp: N/A  
Luminaire Lumens: 7039.2 lumens  
Efficiency: N/A  
Efficacy: 147.0 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

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



TEST NUMBER: P562994  
CATALOG NUMBER: SQ4-PC3-125U-050D-840-1D-UNV-STD-W-4

### Luminous Intensity Polar Plot





TEST NUMBER: P562994

CATALOG NUMBER: SQ4-PC3-125U-050D-840-1D-UNV-STD-W-4

**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°	6719	6719	6719
5°	6770	6727	6702
10°	6754	6722	6703
15°	6719	6719	6712
20°	6674	6694	6694
25°	6611	6660	6638
30°	6531	6609	6581
35°	6433	6533	6486
40°	6327	6417	6352
45°	6212	6256	6160
50°	6050	6050	5952
55°	5858	5781	5696
60°	5574	5464	5375
65°	5152	5050	5006
70°	4510	4548	4529
75°	3629	4014	4039
80°	2582	3406	3438
85°	1567	2858	2858



TEST NUMBER: P562994

CATALOG NUMBER: SQ4-PC3-125U-050D-840-1D-UNV-STD-W-4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.9	1.0
10°-20°	197.8	2.8
20°-30°	299.6	4.3
30°-40°	359.1	5.1
40°-50°	366.2	5.2
50°-60°	319.7	4.5
60°-70°	228.8	3.3
70°-80°	117.9	1.7
80°-90°	31.6	0.4
90°-100°	365.9	5.2
100°-110°	985.7	14.0
110°-120°	1034.5	14.7
120°-130°	839.4	11.9
130°-140°	658.3	9.4
140°-150°	505.4	7.2
150°-160°	363.4	5.2
160°-170°	222.0	3.2
170°-180°	74.9	1.1
0°-30°	566.3	8.0
0°-40°	925.4	13.1
0°-60°	1611.3	22.9
0°-90°	1989.6	28.3
90°-120°	2386.1	33.9
90°-150°	4389.3	62.4
90°-180°	5050.0	71.7
0°-180°	7039.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	728	728	728	728	728	
5°	731	724	726	724	724	69
15°	703	697	703	703	703	198
25°	649	645	654	652	652	299
35°	571	570	580	576	576	357
45°	476	475	480	473	472	366
55°	364	360	359	354	354	325
65°	236	231	231	229	229	233
75°	102	106	113	113	113	110
85°	15	23	27	28	27	20
90°	2	6	12	13	13	5
95°	56	199	600	307	212	58
105°	182	284	1090	1631	1530	192
115°	322	394	908	1754	1984	317
125°	439	505	815	1378	1621	392
135°	529	590	792	1111	1258	408
145°	612	660	782	950	1020	384
155°	694	720	775	853	880	320
165°	753	762	778	809	813	212
175°	783	782	779	790	788	74
180°	782	782	782	782	782	

TEST NUMBER: P562994

CATALOG NUMBER: SQ4-PC3-125U-050D-840-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	728.3	728.3	728.3	728.3	728.3
2.5°	732.7	726.3	728.3	726.7	724.0
5°	731.0	723.8	726.3	724.3	723.6
7.5°	725.8	718.5	721.9	720.5	719.8
10°	720.9	713.7	717.5	716.2	715.5
12.5°	714.4	707.7	712.1	710.8	710.7
15°	703.4	697.4	703.4	703.4	702.7
17.5°	689.5	684.1	690.4	690.8	690.4
20°	679.8	673.8	681.8	681.1	681.8
22.5°	667.9	663.0	671.6	669.8	670.5
25°	649.4	644.8	654.2	652.1	652.1
27.5°	627.6	624.3	634.5	632.3	632.3
30°	613.0	609.7	620.4	617.7	617.7
32.5°	596.8	594.6	604.8	601.6	601.6
35°	571.2	569.9	580.0	575.9	575.9
37.5°	544.8	543.6	552.7	547.8	546.3
40°	525.3	524.7	532.8	527.4	527.4
42.5°	505.9	505.3	512.3	505.8	505.8
45°	476.1	474.8	479.5	473.4	472.1
47.5°	443.6	442.3	445.2	438.6	437.9
50°	421.5	420.2	421.5	415.4	414.7
52.5°	398.8	396.5	396.7	390.6	390.5
55°	364.2	359.6	359.4	354.1	354.1
57.5°	327.5	321.4	322.0	317.4	316.7
60°	302.1	295.5	296.1	292.0	291.3
62.5°	277.3	269.7	271.2	266.6	266.5
65°	236.0	230.8	231.3	229.3	229.3
67.5°	196.4	191.5	195.0	193.4	193.3
70°	167.2	164.0	168.6	168.6	167.9
72.5°	140.3	140.1	145.9	145.9	146.3
75°	101.8	106.4	112.6	113.3	113.3
77.5°	68.0	76.2	82.9	83.2	83.1
80°	48.6	57.8	64.1	65.4	64.7
82.5°	32.9	42.7	47.9	49.2	48.6
85°	14.8	22.7	27.0	27.6	27.0
87.5°	4.7	10.2	13.2	13.4	12.3
90°	2.0	5.9	12.0	13.0	13.0
92.5°	24.3	85.9	169.8	81.7	56.8
95°	55.8	199.0	599.9	306.8	212.2
97.5°	89.1	227.8	940.8	786.0	592.7
100°	114.6	239.3	1049.3	1097.8	910.8
102.5°	139.3	255.4	1085.1	1331.4	1177.8
105°	182.3	283.7	1090.1	1630.9	1530.5
107.5°	223.0	313.4	1043.7	1784.8	1810.7
110°	250.1	335.8	1001.4	1832.6	1927.1



TEST NUMBER: P562994

CATALOG NUMBER: SQ4-PC3-125U-050D-840-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	278.8	358.3	960.8	1822.0	1977.3
115°	321.9	394.0	907.8	1754.0	1983.9
117.5°	361.1	428.7	866.7	1645.4	1901.4
120°	386.6	451.9	846.0	1567.4	1830.5
122.5°	408.9	473.4	830.8	1487.7	1750.0
125°	439.4	504.7	815.1	1377.6	1621.2
127.5°	468.7	533.0	805.1	1280.6	1498.1
130°	486.3	550.6	801.1	1225.0	1416.0
132.5°	503.8	567.3	797.2	1176.0	1351.4
135°	529.1	590.5	792.2	1111.4	1258.5
137.5°	553.2	612.1	789.6	1056.6	1177.4
140°	570.0	626.5	787.2	1022.8	1132.0
142.5°	587.5	640.1	785.6	991.4	1083.3
145°	611.8	659.6	782.2	950.2	1020.4
147.5°	638.1	679.6	778.8	915.6	970.7
150°	655.7	691.7	777.2	893.9	939.6
152.5°	671.6	703.0	776.4	876.1	913.3
155°	694.5	719.9	775.2	852.6	879.9
157.5°	714.7	734.3	775.4	836.0	854.4
160°	727.4	744.0	776.2	826.4	840.0
162.5°	738.6	752.0	777.0	818.3	828.0
165°	753.3	762.1	778.2	809.2	813.1
167.5°	765.3	770.3	779.2	802.2	803.7
170°	773.2	775.2	779.2	798.2	798.2
172.5°	778.0	778.4	780.0	794.2	794.2
175°	783.2	782.2	779.2	790.1	788.2
177.5°	785.4	783.8	779.8	786.2	784.6
180°	782.2	782.2	782.2	782.2	782.2

(END OF REPORT)